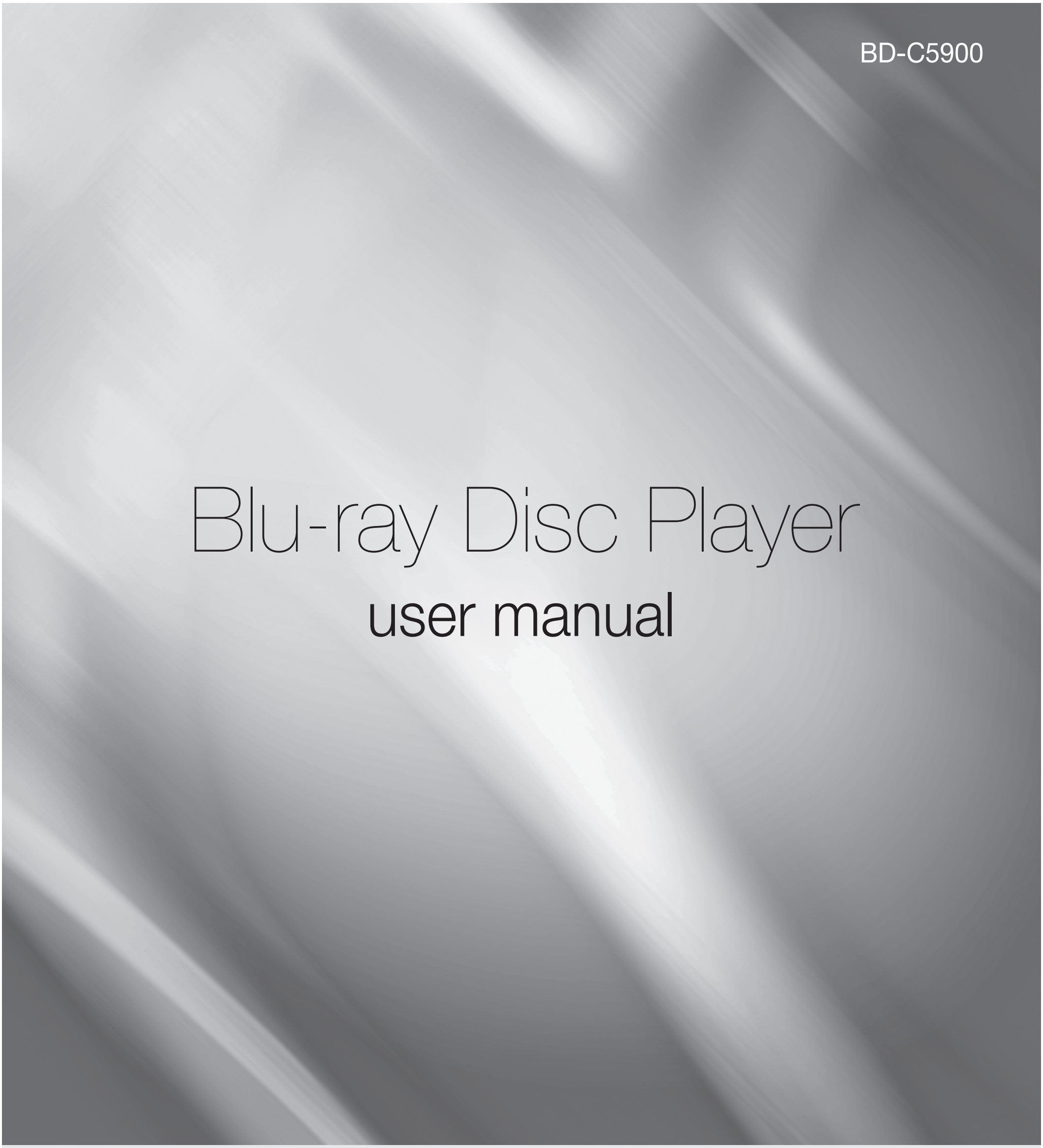


BD-C5900

Blu-ray Disc Player

user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service,
please register your product at
www.samsung.com/register

Key features

Blu-ray Disc Features

Blu-ray Discs support the highest quality HD video available in the industry - Large capacity means no compromise on video quality. Furthermore, a Blu-ray Disc has the same familiar size and look as a DVD.

The following Blu-ray Disc features are disc dependant and will vary.
Appearance and navigation of features will also vary from disc to disc.
Not all discs will have the features described below.

Video highlights

The BD-ROM format supports three highly advanced video codecs, including AVC, VC-1 and MPEG-2.

HD video resolutions are also available:

- 1920 x 1080 High Definition
- 1280 x 720 High Definition

For High-Definition Playback

To view high-definition contents on a Blu-ray Disc, an HDTV (High Definition Television) is required. Some Blu-ray Discs may require using the player's HDMI OUT to view high-definition content.
The ability to view high-definition content on Blu-ray Discs may be limited depending on the resolution of your TV.

Interactivity

Certain Blu-ray Discs may contain Animated menus and Trivia games.

User Browsable Slideshows

With Blu-ray Discs, you can browse through various still pictures while the audio remains playing.

Subtitles

Depending on what is contained on the Blu-ray Disc, you may be able to select different font styles, sizes, and colors for the subtitles. Subtitles may also be animated, scrolled, or faded in and out.

BD-LIVE

You can use a Blu-ray Disc supporting BD-LIVE through network connection to enjoy various contents provided by the disc manufacturer.

Blu-ray Disc Player Features

Internet@TV

You can download various chargeable or free-of-charge applications through network connection.

Various internet service and contents will be provided, which include news, weather forecast, stock market, quotes, games and music.

3D

This player can play 3D contents through an HDMI cable.
To implement the 3D effect, connect a 3D device (3D-compliant AV receiver, 3D-compliant TV) to the player using an HDMI cable, and play the 3D content while wearing 3D vision glasses.

Safety Information

Warning

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡	**CAUTION** RISK OF ELECTRIC SHOCK DO NOT OPEN	⚠
The lighting flash and Arrowhead within the triangle is a warning sign alerting you of dangerous voltage inside the product.	**CAUTION**: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	The explanation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

FCC NOTE (for U.S.A)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on.

The user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- This class B digital product meets all requirements of the Canadian Interference - Causing Equipment Regulations.

Note to CATV system installer

This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product. Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Complies with 21CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

DANGER :

- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)

CAUTION :

- CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM (IEC 60825-1)
- THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CLASS 1	**LASER PRODUCT**
KLASSE 1	**LASER PRODUKT**
LUOKAN 1	**LASER LAITE**
KLASS 1	**LASER APPARAT**
PRODUCTO	**LÁSER CLASE 1**

NOTE

- If the Region number of a Blu-ray Disc/DVD disc does not correspond to the Region number of this player, the player cannot play the disc.

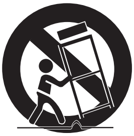
Safety Information

Precautions

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below.
Keep these operating instructions handy for future reference.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



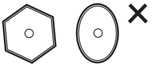
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Disc Storage & Management

Disc Handling

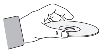
Disc Shape

- Use discs with regular shapes. If an irregular disc (a disc with a special shape) is used, this player may be damaged.



Holding discs

- Avoid touching the surface of a disc where data has been recorded.



Blu-ray Discs

- Do not leave a Blu-ray Disc in the player for long periods of time. Remove the Blu-ray Disc from the player and store it in its case.
- Be careful not to leave fingerprints or scratches on the surface of the Blu-ray Disc.

DVD-VIDEO, Audio CD (CD-DA)

- Wipe off dirt or contamination on the disc with a soft cloth.

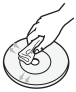
Disc Storage

Be careful not to damage the disc because the data on these discs is highly vulnerable to the environment.

- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.
- If you move your player suddenly from a cold place to a warm place, condensation may occur on the operating parts and lens and lens, and cause abnormal disc playback. If this occurs, unplug the player, wait for two hours and then connect the plug to the power outlet. Then insert the disc and try to play back again.

Handling Cautions

- Do not write on the printed side with a ball-point pen or pencil.
- Do not use record cleaning sprays or antistatic. Also, do not use volatile chemicals, such as benzene or thinner.
- Do not apply labels or stickers to discs. (Do not use discs fixed with exposed tape adhesive or leftover peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.
- Do not load warped or cracked discs.
- Before connecting other components to this player, be sure to turn them off.
- Do not move the player while a disc is being played as the disc may be scratched or broken, or the player's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the player.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interferences such as lightning and static electricity can affect the normal operation of this player. If this occurs, turn the player off and on again with the **POWER** button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally.
- Be sure to remove the disc and turn off the player after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the player for long periods of time.
- To clean a disc, wipe it in a straight line from the inside to the outside of the disc.



- Do not expose the player to any liquid.
- When the AC plug is connected to a wall outlet, the player will still draw power (standby mode) when it is turned off.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The main plug is used as a disconnect device and shall stay readily operable at any time.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

Restrictions on Playback

- This player may not respond to all operating commands because some Blu-ray, DVD and CD discs allow specific or limited operation and features during playback.
  Please note that this is not a defect in the player.
- Samsung cannot assure that this player will play every disc bearing the Blu-ray Disc, DVD or CD logo because disc formats evolve, and problems and errors may occur during the creation of Blu-ray Disc, DVD, CD software and/or the manufacture of discs.
  Please contact the SAMSUNG customer care center if you have questions or encounter difficulty in playing Blu-ray, DVD, or CD discs in this player. Also, refer to rest of this user manual for additional information on playback restrictions.

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Getting Started

Before using the User Manual

Disc Types and Contents that can be played.

Term	Logo	Icon	Definition
BD-ROM	Blu-ray Disc Blu-ray 3D	BD-ROM	Indicates a function available on a BD-ROM.
BD-RE/-R		BD-RE/-R	Indicates a function available on a BD-RE/-R disc recorded in the BD-RE format.
DVD-VIDEO	DVD VIDEO	DVD-VIDEO	Indicates a function available on a DVD-VIDEO.
DVD-RW(V)	DVD RW	DVD±RW/±R	Indicates a function available on recorded DVD+RW or DVD-RW(V)/DVD-R/+R discs that have been recorded and finalized.
DVD-R	DVD R		
DVD+RW	RW DVD+ReWritable		
DVD+R	RW DVD+R RW DVD+R		
Audio CD	COMPACT disc DIGITAL AUDIO	Audio CD	Indicates a function available on an audio CD-RW/-R (CD-DA format).
MP3 WMA	-	MP3/WMA	Indicates a function available in a CD-RW/-R, DVD-RW/-R, BD-RE/-R disc or a USB storage media containing MP3 or WMA contents.
JPEG	-	JPEG	Indicates a function available in a CD-RW/-R, DVD-RW/-R, BD-RE/-R disc or a USB storage media containing JPEG contents.
DivX MKV MP4	-	DivX/MKV/MP4	Indicates a function available in a CD-RW/-R, DVD-RW/-R, BD-RE/-R disc or a USB storage media containing DivX, MKV, MP4 contents.

✎ **NOTE**

- The player may not play certain CD-RW/-R and DVD-R due to the disc type or recording conditions.
- If a DVD-RW/-R disc has not been recorded properly in DVD video format, it will not be playable.
- If contents which are consisting of more than 10 Mbps bit-rate have been recorded in DVD-R, it is not supported.
  If contents which are consisting of more than 30 Mbps bit-rate have been recorded in BD-R or USB, it is not supported.

Disc types that cannot be played

- HD DVD
- DVD-ROM/PD/MV-Disc, etc
- DVD-RAM
- Super Audio CD (except CD layer)
- DVD-RW(VR mode)
- CVD/CD-ROM/CDV/CD-G/CD-I/LD (CD-Gs play audio only, not graphics.)
- 3.9 GB DVD-R Disc for Authoring.

✎ NOTE

- Some commercial discs and DVD discs purchased outside your region may not be playable with this player. When these discs are played, either "This disc can not be played." or "Cannot read this disc. Please check the regional code of the disc." will be displayed.
- Playback may not work for some types of discs, or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the discs is written in detail on the disc box. Please refer to this if necessary.
- Do not allow the disc to become dirty or scratched. Fingerprints, dirt, dust, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for playback.
- Discs with PAL programs recorded on them cannot be played using this player.
- This player is compatible with the NTSC color system only.
- When a BD-J title is played, loading may take longer than a normal title, or some functions may perform slowly.
- This player may not respond to all operating commands because some Blu-ray, DVD and CD discs allow specific or limited operation and features during playback.
  Please note that this is not a defect in the player.
- Samsung cannot assure that this player will play every disc bearing the Blu-ray Disc, DVD or CD logo because disc formats evolve, and problems and errors may occur during the creation of Blu-ray Disc, DVD, CD software and/or the manufacture of discs. Please contact the SAMSUNG customer care center if you have questions or encounter difficulty when playing Blu-ray, DVD, or CD discs in this player. Also, refer to rest of this user manual for additional information on playback restrictions.

Blu-ray Disc Compatibility

Blu-ray Disc is a new and evolving format. Accordingly, disc compatibility issues are possible. Not all discs are compatible and not every disc will play back. For additional information, refer to the Compliance and Compatibility Notice section of this user manual.

Disc Types

BD-ROM

This Blu-ray disc can only be played back.
This player can play back pre-recorded commercial BD-ROM discs.

BD-RE/-R

This Blu-ray disc can be recorded and played back.
This player can play back a BD-RE/-R disc recorded by other compatible Blu-ray disc recorders.

DVD-VIDEO

- This player can play back pre-recorded commercial DVD discs (DVD-VIDEO discs) with movies.
- When switching from the first layer to the second layer of a dual-layered DVD-VIDEO disc, there may be momentary distortion in the image and sound. This is not a malfunction of the player.

DVD-RW

This player can play back a DVD-RW disc recorded and finalized with a DVD video recorder. Ability to play back may depend on recording conditions.

DVD-R

This player can play back a DVD-R disc recorded and finalized with a DVD Video recorder. Ability to play back may depend on recording conditions.

DVD+RW

- This player can play back a DVD+RW disc recorded with a DVD Video recorder. Ability to play back may depend on recording conditions.

Getting Started

DVD+R

- This player can play back a DVD+R disc recorded and finalized with a DVD Video recorder. Ability to play back may depend on recording conditions.

Audio CD (CD-DA)

- This player can play back CD-DA format audio CD-RW/-R discs.
- The player may not be able to play some CD-RW/-R discs due to the condition of the recording.

CD-RW/-R

- Use a 700MB (80 minute) CD-RW/-R disc. If possible, do not use a 800MB (90 minute) or above disc, as the disc may not play back.
- If the CD-RW/-R disc was not recorded as a closed session, you may experience delays when playing back the beginning of the disc or all recorded files may not play.
- Some CD-RW/-R discs may not be playable with this player, depending on the device which was used to burn them. For contents recorded on CD-RW/-R media from CDs for your personal use, playability may vary depending on contents and discs.

AVCHD (Advanced Video Codec High Definition)

- This player can playback AVCHD format discs. These discs are normally recorded and used in camcorders.
- The AVCHD format is a high definition digital video camera format.
- The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compressing format.
- Some AVCHD discs use the “x.v.Color” format.
- This player can playback AVCHD discs using “x.v.Color” format.
- “x.v.Color” is a trademark of Sony Corporation.
- “AVCHD” and the AVCHD logo are trademarks of Matsushita Electronic Industrial Co., Ltd. and Sony Corporation.

✎ **NOTE**

- ■ Some AVCHD format discs may not play, depending on the recording condition.
  AVCHD format discs need to be finalized.
- ■ “x.v.Color” offers a wider color range than normal DVD camcorder discs.
- ■ Some DivX, MKV and MP4 format discs may not play, depending on the video resolution and frame rate condition.

Region Code

Both the player and the discs are coded by region. These regional codes must match in order to play the disc. If the codes do not match, the disc will not play.
The Region Number for this player is displayed on the rear panel of the player.

Disc Type	Region Code	Area
Blu-ray	A	North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia.
	B	Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand.
	C	India, China, Russia, Central and South Asia.
DVD-VIDEO	1	The U.S., U.S. territories and Canada
	2	Europe, Japan, the Middle East, Egypt, South Africa, Greenland
	3	Taiwan, Korea, the Philippines, Indonesia, Hong Kong
	4	Mexico, South America, Central America, Australia, New Zealand, Pacific Islands, Caribbean
	5	Russia, Eastern Europe, India, most of Africa, North Korea, Mongolia
	6	China

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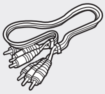
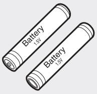
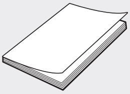
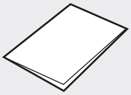
Getting Started

Logos of Discs that can be played

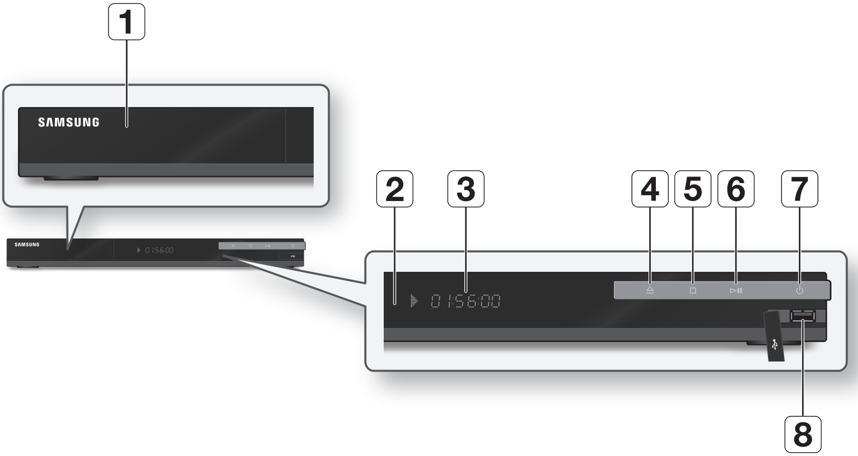
Blu-ray Disc	3D Blu-ray Disc	DTS-HD Master Audio	DivX
BD-LIVE	Dolby TrueHD	NTSC broadcast system in U.S.A, Canada, Korea, Japan	Java

Accessories

Check for the supplied accessories below.

		
Audio/Video cable (AC39-00073A)	Batteries for Remote Control (AAA Size) (AC43-12002H)	
		
User Manual (AK68-01963A)	Quick Guide (AK68-01855R)	Remote Control (AK59-00104R)

Front Panel

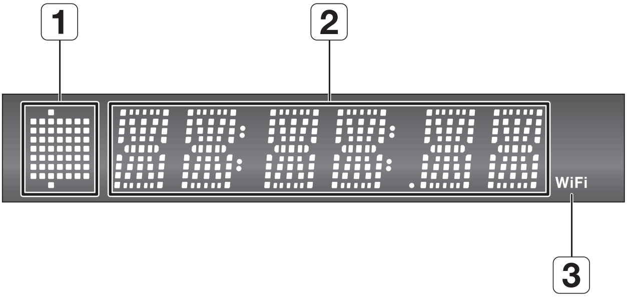


1	DISC TRAY	Opens to accept a disc.
2	REMOTE CONTROL SENSOR	Detects signals from the remote control.
3	DISPLAY	Displays the playing status, time, etc.
4	OPEN/CLOSE BUTTON	Opens and closes the disc tray.
5	STOP BUTTON	Stops disc playback.
6	PLAY/PAUSE BUTTON	Plays a disc or pauses playback.
7	POWER BUTTON	Turns the player on and off.
8	USB HOST	Connect a USB memory flash stick here and use it as storage when the player is connected to BD-LIVE. You can also use the USB host jack for software upgrades and MP3/JPEG/DivX/MKV/MP4 playback.

✎ NOTE

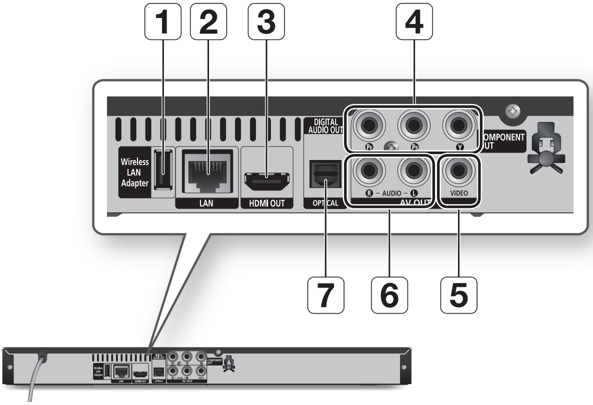
- You can perform software upgrades using the USB Host jack with a USB memory flash stick only.
- In disc menu of BD title, it does not operate play action by front panel's PLAY button.

Front Panel Display



1	IN DISC INDICATOR	Lights when a disc is inserted or played back.
2	CURRENT TIME AND STATUS INDICATOR	Displays the play time and the current status.
3	WIFI INDICATOR	Lights when the wireless network is connected.

Rear Panel

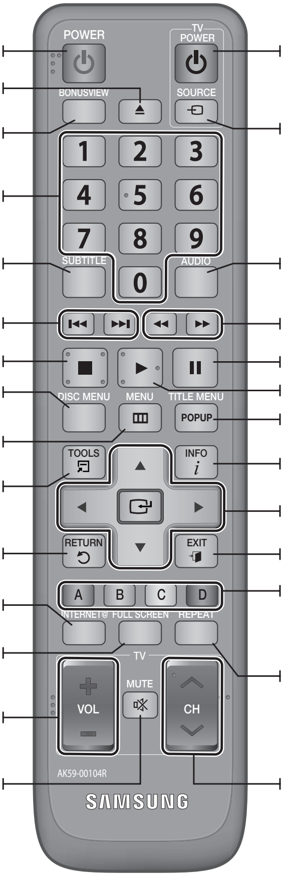

1
2
3
4
Wireless LAN Adapter
LAN
HDMI OUT
DIGITAL AUDIO OUT
OPTICAL
Pr
Pb
Y
COMPONENT OUT
R – AUDIO – L
AV OUT
VIDEO
7
6
5

1	WIRELESS LAN ADAPTER	Connect the optional Wireless LAN Adapter (WIS09ABGN) here to use the Wireless network.
2	LAN	Use to connect to a network and accesss network based services (See pages 53~61), BD-LIVE and software upgrades using a network connection.
3	HDMI OUT	Using an HDMI cable, connect this HDMI output terminal to the HDMI input terminal on your TV for the best quality picture or to your Receiver for the best quality sound.
4	COMPONENT OUT	Connects to equipment having component video input.
5	VIDEO OUT	Connects the input of external equipment using a video cable.
6	AUDIO OUT	Connects to the audio input of external equipment using audio cables.
7	DIGITAL AUDIO OUT	Connects to a receiver.

Getting Started

Remote Control

Tour of the Remote Control


POWER
TV POWER
BONUSVIEW
SOURCE
1
2
3
4
5
6
7
8
9
0
SUBTITLE
AUDIO
DISC MENU
MENU
TITLE MENU
POPUP
TOOLS
INFO
RETURN
EXIT
A
B
C
D
INTERNET@
FULL SCREEN
REPEAT
TV
MUTE
VOL
CH
AK59-00104R
SAMSUNG

Turn the player on and off.

To open and close the disc tray.

Press to use Bonusview function.

Press numeric buttons to operate options.

Press to switch the Blu-ray Disc/DVD's subtitle language.

Press to skip backwards or forwards.

Press to stop a disc.

Use to enter the disc menu.

Press to move to the home menu.

Press to use Tools menu.

Return to the previous menu.

Press to link to various Internet@TV services.

Press to see the full screen on a TV.

TV volume adjustment.

Mutes the speakers of your TV.

Turn the TV on and off.
(To operate your TV, please refer to page 19)

After setup, allows you to set the input source on your TV.

Use to access various audio functions on a disc (Blu-ray Disc/DVD).

Press to search a disc backwards or forwards.

Press to pause a disc.

Press to play a disc.

Use to enter the popup menu/title menu.

Use to display the playback information during playing a Blu-ray/DVD disc.

Select menu items and change menu value.

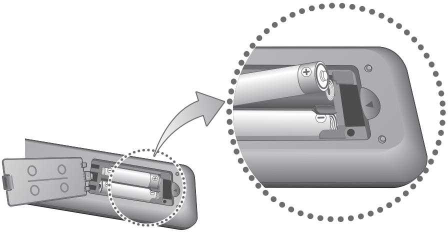
Press to exit the menu.

These buttons are used both for menus on the player and also several Blu-ray Disc functions.

Allows you to repeat a title, chapter, track or disc.

Use to select a TV program.

Installing batteries



NOTE

- If the remote does not operate properly :
  - Check the polarity +/– of the batteries.
  - Check if the batteries are drained.
  - Check if the remote sensor is blocked by obstacles.
  - Check if there is any fluorescent lighting nearby.

Setting the Remote Control

You can control certain functions of your TV with this remote control.

Button	Function
TV POWER	Used to switch the television on and off.
TV SOURCE	Used to select an external source connected to the TV.
TV VOL (+/–)	Used to adjust the volume of the television.
TV CH (∧/∨)	Used to select the desired channel.
TV MUTE	Used to toggle the sound on and off.

✎ NOTE

- The functions listed above will not necessarily work on all televisions. If you encounter problems, operate the television directly.

To determine whether your television is compatible, follow the instructions below.

1. Switch your television on.
2. Point the remote control towards the television.
3. Press and hold the **TV POWER** button, and then enter the two-figure code corresponding to the brand of your television by pressing the appropriate number buttons.
   If your television is compatible with the remote control, it will switch off.
   It is now programmed to operate with the remote control.

✎ NOTE

- If several codes are listed for your television brand, try each one in turn until you find one that works.
- If you replace the remote control's batteries, you must set the brand code again.

Controllable TV Codes

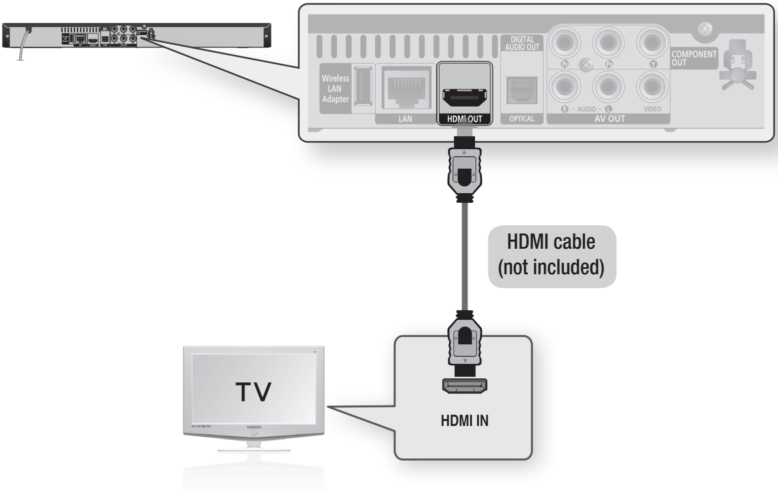
Brand	Code
SAMSUNG	TV POWER+01, +02, +03, +04, +05, +06, +07, +08, +09
AIWA	TV POWER+82
ANAM	TV POWER+10, +11, +12, +13, +14, +15, +16, +17, +18
BANG & OLUFSEN	TV POWER+57
BLAUPUNKT	TV POWER+71
BRANDT	TV POWER+73
BRIONVEGA	TV POWER+57
CGE	TV POWER+52
CONTINENTAL EDISON	TV POWER+75
DAEWOO	TV POWER+19, +20, +23, +24, +25, +26, +27, +28, +29, +30, +31, +32, +33, +34
EMERSON	TV POWER+64
FERGUSON	TV POWER+73
FINLUX	TV POWER+06, +49, +57
FORMENTI	TV POWER+57
FUJITSU	TV POWER+84
GRADIENTE	TV POWER+70
GRUNDIG	TV POWER+49, +52, +71
HITACHI	TV POWER+60, +72, +73, +75
IMPERIAL	TV POWER+52
JVC	TV POWER+61, +79
LG	TV POWER+06, +19, +20, +21, +22, +78
LOEWE	TV POWER+06, +69
LOEWE OPTA	TV POWER+06, +57
MAGNAVOX	TV POWER+40
METZ	TV POWER+57
MITSUBISHI	TV POWER+06, +48, +62, +65
MIVAR	TV POWER+52, +77
NEC	TV POWER+83
NEWSAN	TV POWER+68
NOBLEX	TV POWER+66
NOKIA	TV POWER+74
NORDMENDE	TV POWER+72, +73, +75
PANASONIC	TV POWER+53, +54, +74, +75
PHILIPS	TV POWER+06, +55, +56, +57
PHONOLA	TV POWER+06, +56, +57
PIONEER	TV POWER+58, +59, +73, +74
RADIOLA	TV POWER+06, +56
RADIOMARELLI	TV POWER+57
RCA	TV POWER+45, +46
REX	TV POWER+74
SABA	TV POWER+57, +72, +73, +74, +75
SALORA	TV POWER+74
SANYO	TV POWER+41, +42, +43, +44, +48
SCHNEIDER	TV POWER+06
SELECO	TV POWER+74
SHARP	TV POWER+36, +37, +38, +39, +48
SIEMENS	TV POWER+71
SINGER	TV POWER+57
SINUDYNE	TV POWER+57
SONY	TV POWER+35, +48
TELEAVA	TV POWER+73
TELEFUNKEN	TV POWER+67, +73, +75, +76
THOMSON	TV POWER+72, +73, +75
THOMSON ASIA	TV POWER+80, +81
TOSHIBA	TV POWER+47, +48, +49, +50, +51, +52
WEGA	TV POWER+57
YOKO	TV POWER+06
ZENITH	TV POWER+63

Connections

Connecting to a TV

Case 1 : Connecting to a TV with an HDMI Cable - Best Quality (Recommended)

1. Using an HDMI cable, connect the **HDMI OUT** terminal on the rear of the player to the **HDMI IN** terminal of your TV.
2. Turn on the player and TV.
3. Press the input selector on your TV remote control until the HDMI signal from the player appears on your TV screen.
   - If you have set the remote control to operate your TV (See page 19), press the **TV SOURCE** button on the remote control and select HDMI as the external source of the TV.

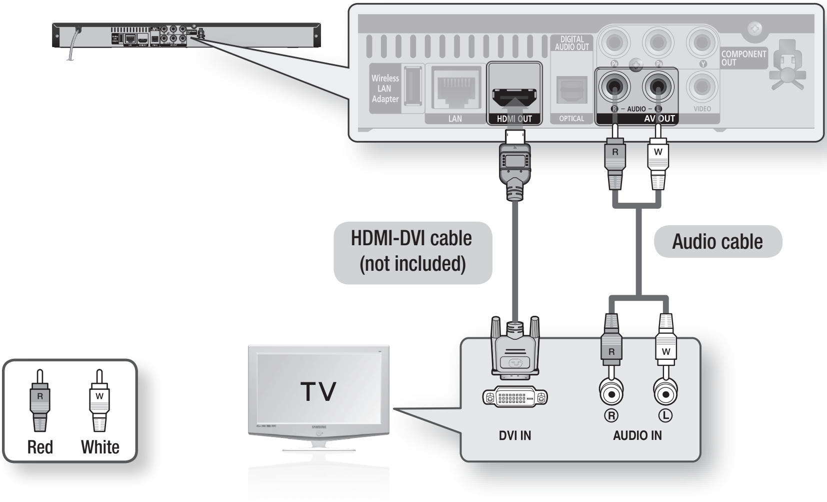


✎ **NOTE**

- An HDMI cable outputs digital video/audio, so you don't need to connect an audio cable.
- If the player is connected to your TV in the HDMI 720p, or 1080i, 1080p output mode, you must use a High speed (category2) HDMI cable.
- HDMI outputs only a pure digital signal to the TV.
  If your TV does not support HDCP (High-bandwidth Digital Content Protection), random noise appears on the screen.
- Depending on your TV, certain HDMI output resolutions may not work. Please refer to the user manual of your TV.
- When you connect the player to a TV using an HDMI cable for the first time or to a new TV, the player sets the HDMI output resolution to the highest supported by the TV automatically.
- You must have an HDMI connection to enjoy videos with 3D technology.
- A long HDMI cable may cause screen noise or distortion. If this occurs, set Deep Color to Off in the menu.

Case 2 : Connecting to a TV with DVI Cable - Best Quality (Recommended)

1. Using an HDMI-DVI cable, connect the **HDMI OUT** terminal on the rear of the player to the **DVI IN** terminal of your TV.
2. Using an audio cable, connect the **AUDIO OUT (red and white)** terminals on the rear of the player to the **AUDIO IN (red and white)** terminals of your TV.
3. Turn on the player and TV.
4. Press the input selector on your TV remote control until the HDMI-DVI signal from the player appears on your TV screen.
    - If you have set the remote control to operate your TV (See page 19), press the **TV SOURCE** button on the remote control and select HDMI-DVI as the external source of the TV.


Wireless LAN Adapter
LAN
HDMI OUT
DIGITAL AUDIO OUT
OPTICAL
R – AUDIO – L
AV OUT
COMPONENT OUT
Y
VIDEO
R
W
HDMI-DVI cable (not included)
Audio cable
TV
DVI IN
AUDIO IN
Red
White

✎ **NOTE**

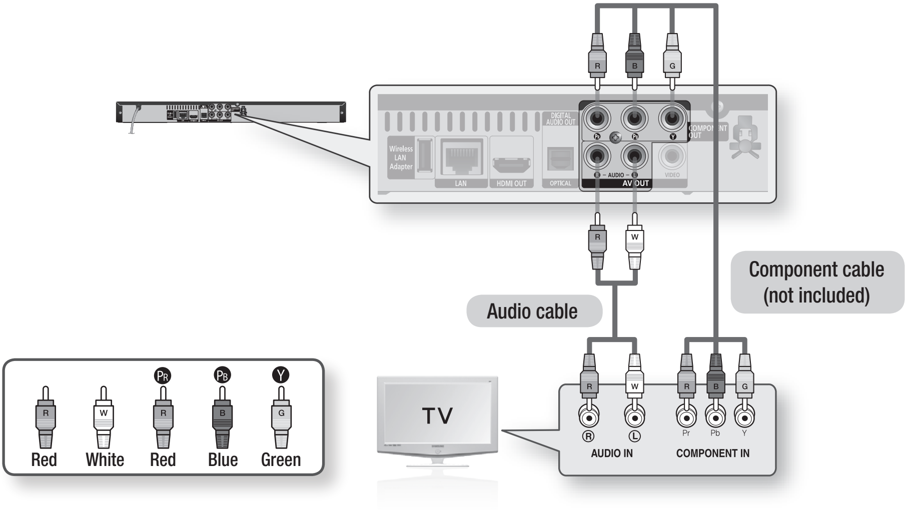
- HDMI outputs only a pure digital signal to the TV. If your TV does not support HDCP (High-bandwidth Digital Content Protection), random noise appears on the screen.
- Depending on your TV, certain HDMI output resolutions may not work. Please refer to the user manual of your TV.
- When you connect the player to the TV using the HDMI-DVI cable for the first time or connect to a new TV, the player sets the HDMI output resolution to the highest supported by the TV automatically.

Connections

Case 3 : Connecting to a TV with Component Cables - Better Quality

- Connect to your TV using Component video cables and separate audio cables.
- You will enjoy high quality images with accurate color reproduction. Component video separates the picture element into black and white (Y), blue (PB) and red (PR) signals to present clear and clean images. (Audio signals are delivered through the audio output.)

1. Using Component video cables, connect the **COMPONENT OUT** terminals on the rear of the player to the **COMPONENT IN** terminals of your TV.
2. Using the audio cables, connect the **AUDIO OUT (red and white)** terminals on the rear of the player to the **AUDIO IN (red and white)** terminals of your TV.
3. Turn on the player and TV.
4. Press the input selector on your TV remote control until the “COMPONENT” signal from the player appears on the TV screen.
   - If you have set the remote control to operate your TV (See page 19), press the **TV SOURCE** button on the remote control and select COMPONENT as the external source of the TV.

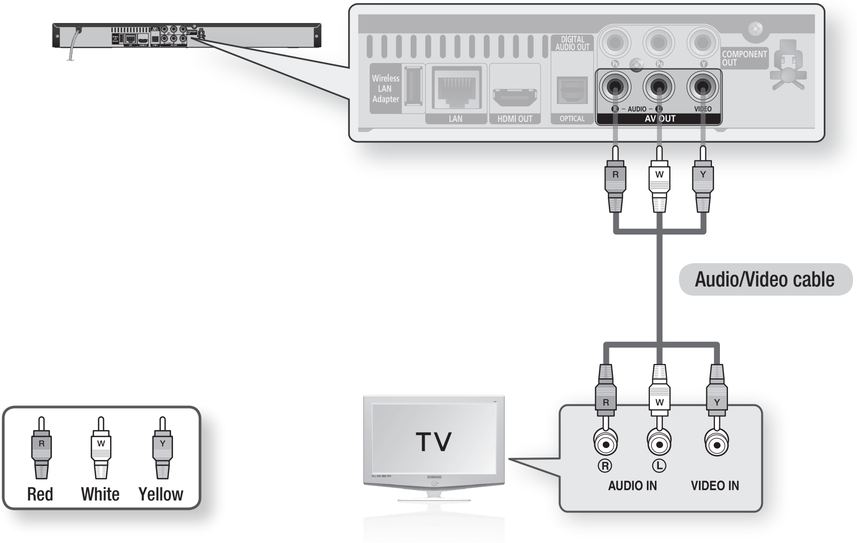

R
B
G
DIGITAL AUDIO OUT
Wireless LAN Adapter
LAN
HDMI OUT
OPTICAL
COMPONENT OUT
AUDIO
AV OUT
VIDEO
R
W
Audio cable
Component cable
(not included)
TV
R
W
R
B
G
AUDIO IN
COMPONENT IN
Pr
Pb
Y
PR
PB
Y
R
W
R
B
G
Red
White
Red
Blue
Green

NOTE

- Depending on the manufacturer, the component terminals on your TV may be marked “R-Y, B-Y, Y ” or “Cr, Cb, Y” instead of “PB, PR, Y”. The number and position of terminals may vary depending on the TV set. Please refer to the user manual of your TV.
- You can select from a variety of resolution settings for Blu-ray Discs such as 1080i, 720p, 480p, 480i, depending on the disc type. (See pages 31~32)
- The actual resolution may differ from the setting in the setup menu if both Component and HDMI cables are connected. The resolution may also be different depending on the disc. (See pages 31~32)
- In DVD playback, if both HDMI and Component jacks are connected and you select the Component 1080p, 1080i or 720p mode, the Display Setup menu will show the output resolution as 1080p, 1080i or 720p in the menu. The resolution is actually 480i.

Case 4 : Connecting to a TV with Video cables - Good Quality

1. Using video/audio cables, connect the **VIDEO OUT (yellow) / AUDIO OUT (red and white)** terminals on the rear of the player to the **VIDEO IN (yellow) / AUDIO IN (red and white)** terminals of your TV.
2. Turn on the player and TV.
3. Press the input selector on your TV remote control until the “VIDEO” signal from the player appears on the TV screen.
   - If you have set the remote control to operate your TV (See page 19), press the **TV SOURCE** button on the remote control and select VIDEO as the external source of the TV.



DIGITAL AUDIO OUT
COMPONENT OUT
Wireless LAN Adapter
LAN
HDMI OUT
OPTICAL
R – AUDIO – L
VIDEO
AV OUT
R
W
Y
Audio/Video cable
TV
R
W
Y
R
L
AUDIO IN
VIDEO IN
R
W
Y
Red
White
Yellow

NOTE

- Noise may be generated if the audio cable is placed too close to the power cable.
- If you want to connect to an Amplifier, please refer to the Amplifier connection pages. (See pages 24~25)
- The number and position of terminals may vary depending on your TV set. Please refer to the user manual of your TV.
- If there is only one audio input terminal on the TV, connect it to the **AUDIO OUT** (right/white) terminal of the player.

CAUTION

- Do not connect the unit through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the television.

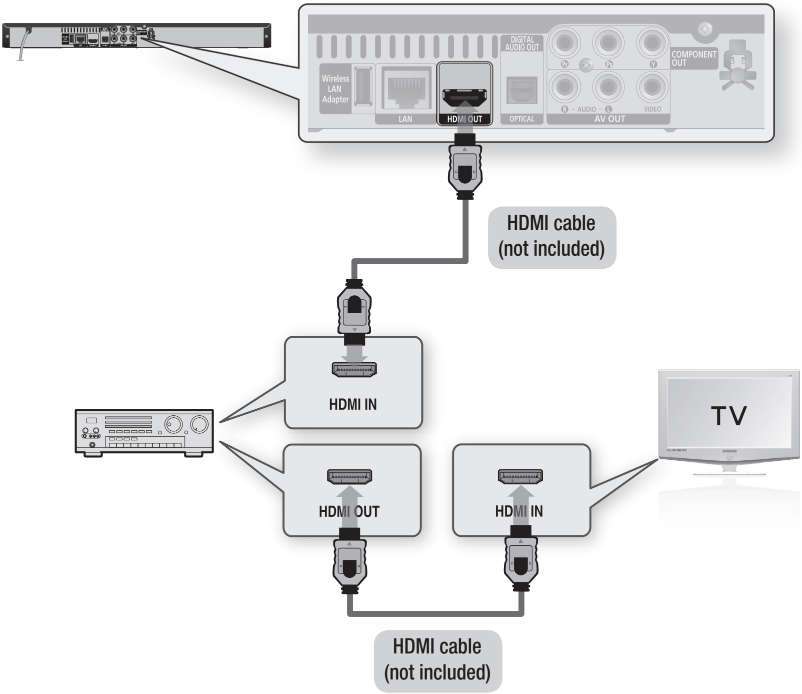
Connections

Connecting to an Audio System

- Please turn the volume down when you turn on the amplifier. Sudden loud sound may cause damage to the speakers and your ears.
- Please set the audio in the menu screen according to the capabilities of amplifier. (See pages 33~35)
- The position of HDMI terminals may vary depending on the amplifier. Please refer to the user manual of your amplifier.

Case 1 : Connecting to an Audio System (HDMI Supported Amplifier) - Best Quality (Recommended)

1. Using an HDMI cable, connect the **HDMI OUT** terminal on the rear of the player to the **HDMI IN** terminal of your Amplifier.
2. Using an HDMI cable, connect the **HDMI OUT** terminal of the Amplifier to the **HDMI IN** terminal of your TV.
3. Turn on the player, TV, and Amplifier.
4. Press the input select button of the Amplifier to select the external input in order to hear sound from the player. Refer to your Amplifier's user manual to set the Amplifier's audio input.
5. Press the input selector on your TV remote control until the HDMI signal from the player appears on your TV screen.

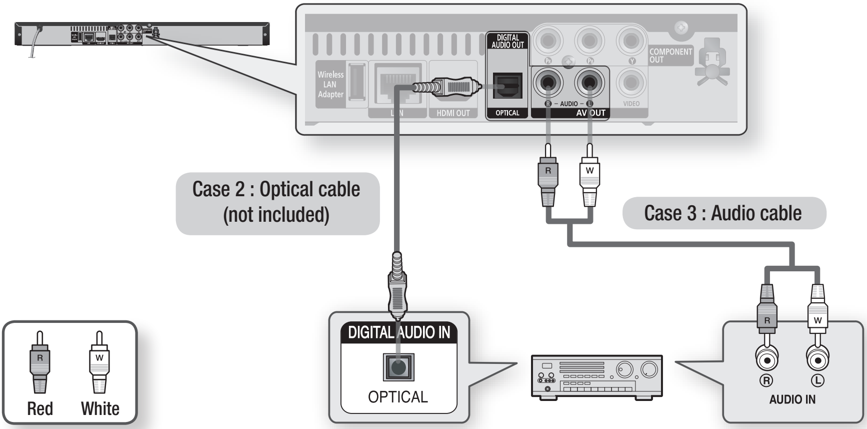

Wireless LAN Adapter
LAN
HDMI OUT
DIGITAL AUDIO OUT
OPTICAL
COMPONENT OUT
AUDIO
VIDEO
AV OUT
HDMI cable (not included)
HDMI IN
HDMI OUT
HDMI IN
TV
HDMI cable (not included)

Case 2 : Connecting to an Audio System (Dolby Digital, DTS Amplifier) - Better Quality

1. Using an optical cable, connect the **DIGITAL AUDIO OUT (OPTICAL)** terminal on the rear of the player to the **DIGITAL AUDIO IN (OPTICAL)** terminal of your amplifier.
2. Using the video signal cable(s), connect the **HDMI**, **COMPONENT**, or **VIDEO OUT** terminals on the rear of the player to the **HDMI**, **COMPONENT**, or **VIDEO IN** terminal of your TV. (See pages 20~23)
3. Turn on the player, TV, and amplifier.
4. Press the input select button of the amplifier to select the external input in order to hear sound from the player. Refer to your amplifier's user manual to set the amplifier's audio input.
5. Press the input selector on your TV remote control to select the video source (HDMI, Component, or Video.)

Case 3 : Connecting to an Audio System (2 Channel Amplifier) - Good Quality

1. Using the audio cables, connect the **AUDIO OUT (red and white)** terminals on the rear of the player to the **AUDIO IN (red and white)** terminals of your amplifier.
2. Using the video signal cable(s), connect the **HDMI**, **COMPONENT**, or **VIDEO OUT** terminals on the rear of the player to the **HDMI**, **COMPONENT**, or **VIDEO IN** terminal of your TV. (See pages 20~23)
3. Turn on the player, TV, and amplifier.
4. Press the input select button of the amplifier to select the external input in order to hear sound from the player. Refer to your amplifier's user manual to set the amplifier's audio input.
5. Press the input selector on your TV remote control to select the video source (HDMI, Component, or Video.)


DIGITAL AUDIO OUT
COMPONENT OUT
Wireless LAN Adapter
LAN
HDMI OUT
OPTICAL
AUDIO
AV OUT
VIDEO
Case 2 : Optical cable (not included)
R
W
Case 3 : Audio cable
DIGITAL AUDIO IN
OPTICAL
R
W
R
L
AUDIO IN
R
W
Red
White

NOTE

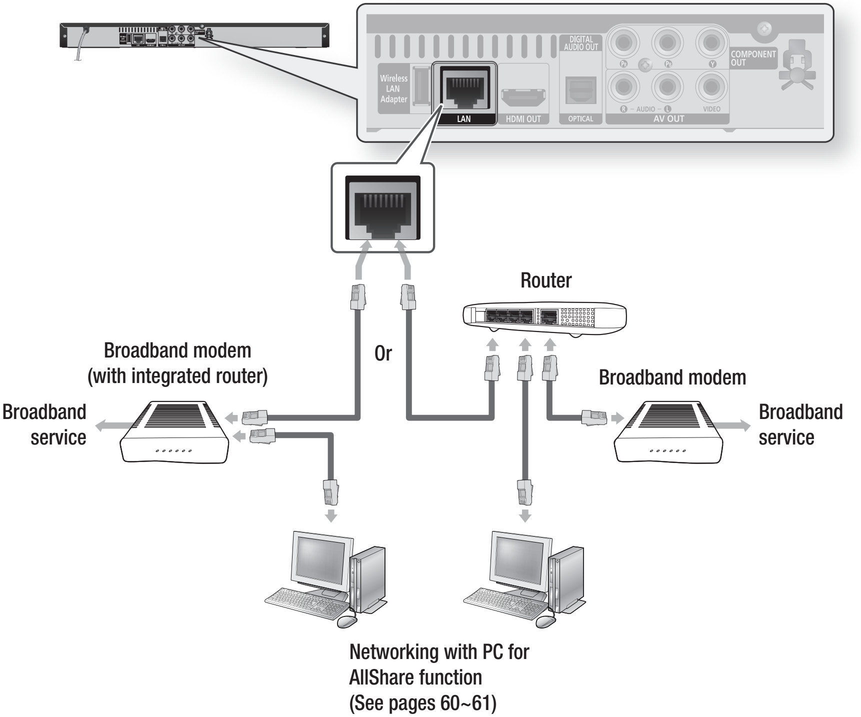
- If you use the Digital Audio connection described in Case 2, you will hear discs with PCM audio soundtracks only through the front two speakers.

Connecting to the Network

This player lets you view network based services (See pages 53~61) such as Internet@TV and BD-LIVE, as well as receive software upgrades if you've connected the player to your network. We recommend using an AP (Access Point) or IP router for the connection. For more information on router connection, refer to the user manual of the router or contact the router manufacturer for technical assistance.

Cable Network

1. Using the Direct LAN Cable (UTP cable), connect the LAN terminal of the player to the LAN terminal of your modem or router.
2. Set the network options. (See pages 37~41)


DIGITAL AUDIO OUT
COMPONENT OUT
Wireless LAN Adapter
LAN
HDMI OUT
OPTICAL
AUDIO
VIDEO
AV OUT
Router
Broadband modem (with integrated router)
Or
Broadband modem
Broadband service
Broadband service
Networking with PC for AllShare function (See pages 60~61)

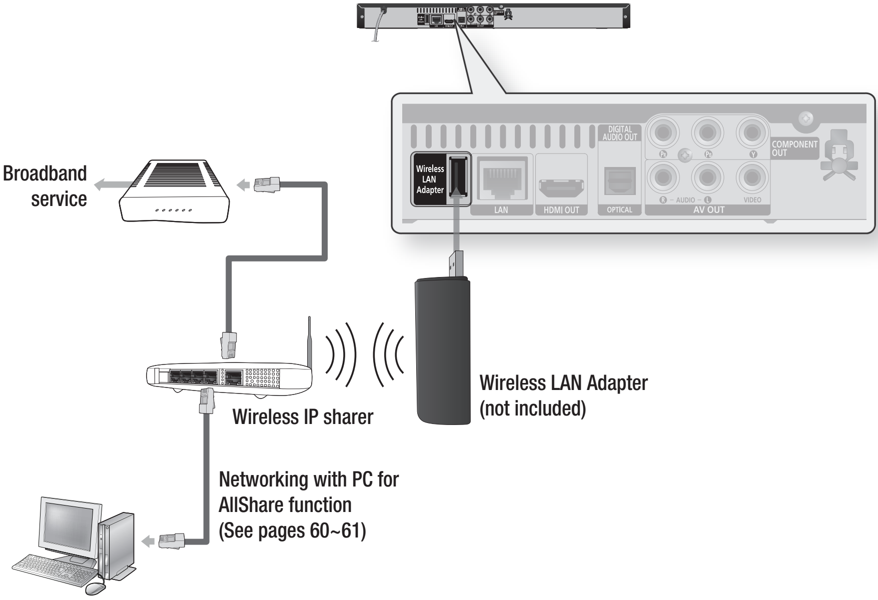
NOTE

- You may not be allowed Internet access to Samsung's software update server, depending on the router you use or your ISP's policy. For more information, contact your ISP (Internet Service Provider).
- For DSL users, please use a router to make a network connection.
- To use the AllShare function, you must connect your PC to your network as shown in the figure. The connection can be wired or wireless.

Wireless Network

You can connect to network with a Wireless IP sharer. To connect to a wireless network, you need a wireless AP/IP router and a Samsung wireless LAN adapter (WIS09ABGN).

1. Connect the wireless LAN adapter to the **Wireless LAN Adapter jack** on the rear panel of the player.
2. Set the network options. (See pages 37~41)


Broadband service
Wireless LAN Adapter
LAN
HDMI OUT
DIGITAL AUDIO OUT
OPTICAL
COMPONENT OUT
AUDIO
AV OUT
VIDEO
Wireless IP sharer
Wireless LAN Adapter (not included)
Networking with PC for AllShare function (See pages 60~61)

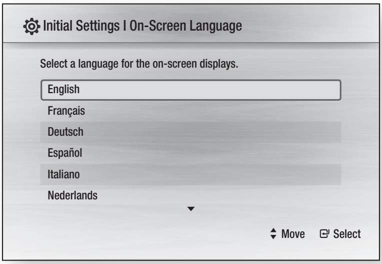
✎ NOTE

- **Use only the Samsung wireless LAN adapter with this player. (Model name: WIS09ABGN).**
  Do not use LAN this adapter with any other third-party players.
  Please contact your player's retailer to purchase the wireless LAN adapter.
- You must use a wireless IP sharer that supports IEEE 802.11 a/b/g/n. We recommend using IEEE 802.11n for stable operation of the wireless network.
- Wireless LAN, by its nature, may cause interference, depending on operating conditions. (AP performance, distance, obstacles, interference by other radio devices, etc).
- Set the wireless IP sharer to Infrastructure mode. Ad-hoc mode is not supported.
- When you apply the security key for the AP (wireless IP sharer), the player only supports the following security protocols:
  1) Authentication Mode : WEP, WPAPSK, WPA2PSK
  2) Encryption Type : WEP, AES
- To use the AllShare function, you must connect your PC to your network as shown in the figure.
  The connection can be wired or wireless.

Setup

Before Starting (Initial Settings)

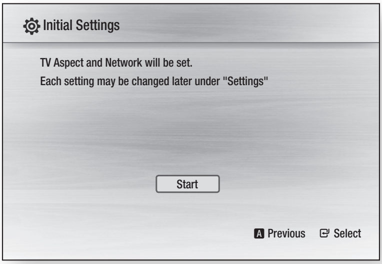
1. Turn on your TV after connecting the player. (When you connect the player to a TV for the first time, the player turns on automatically and the Initial Settings screen appears.)



Initial Settings I On-Screen Language

Select a language for the on-screen displays.

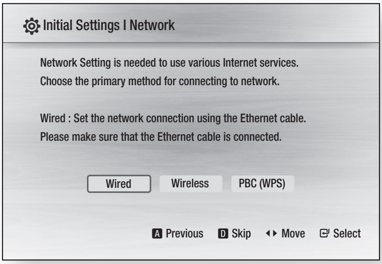
2. Press the ▲▼ buttons to select the desired language, and then press the **ENTER** button.
3. Press the **ENTER** button to select **Start**.



Initial Settings

TV Aspect and Network will be set.
Each setting may be changed later under "Settings"

4. Press the ▲▼ buttons to select the desired TV Aspect Ratio, and then press the **ENTER** button. (See page 31)



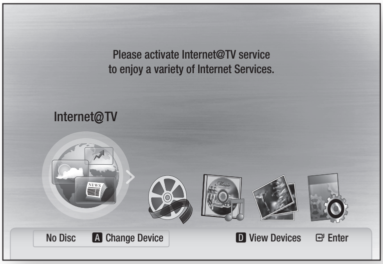
Initial Settings I Network

Network Setting is needed to use various Internet services.
Choose the primary method for connecting to network.

Wired : Set the network connection using the Ethernet cable.
Please make sure that the Ethernet cable is connected.

5. Press the ◄► buttons to select the desired Network Settings : **Wired**, **Wireless** or **PBC (WPS)**, and then press the **ENTER** button.
If you do not know your Network Settings, press the **BLUE (D)** button on your remote instead to skip Network Settings here, finish the Initial Settings, and go to the Home menu.
If you selected a Network Setting, go to pages 37~41 for more information about the Network settings. When done, go to Step 6.
6. Press the **OK** button.
The home menu is displayed. (For more information about home menu, please see page 29)

- **Home Menu**



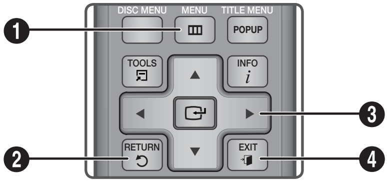
Please activate Internet@TV service
to enjoy a variety of Internet Services.

✎ NOTE

- When the player is connected to TV for the first time, the player turns on automatically.
This is not a malfunction.
- The home menu will appear if you do not configure the initial settings except as noted below.
- If you press the **BLUE (D)** button during the network setup, you can access the home menu even if the network setup is not completed yet.
- When you return to the Home menu, the full screen mode is cancelled automatically.
- If you want to display the Initial Setting screen again to make changes, press the **STOP** (■) button on the front panel of the player for more than 5 seconds with no disc inserted.
- If you use an HDMI cable to connect the player to an **Anynet+(HDMI-CEC)**-compliant Samsung TV, you have set the the **Anynet+(HDMI-CEC)** feature to **On** in both the TV and the player.
If the TV uses a language supported by the player, that language will be set as the preferred language automatically.

- If the player is left in the stop mode more than 5 minutes without being used, a screen saver appears on your TV. If the player is left in the screen saver mode for more than 25 minutes, the power automatically turns off.

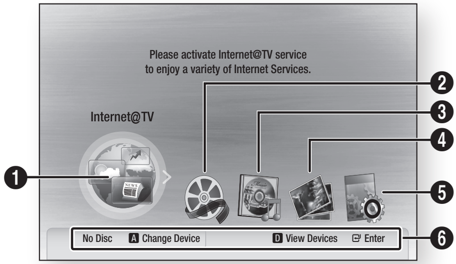
Setting the Menu



❶	**MENU** Button : Press to move to the home menu.
❷	**RETURN** Button : Return to the previous menu.
❸	**ENTER / DIRECTION** Button : Move the cursor or select an item. Select the currently selected item. Confirm a setting.
❹	**EXIT** Button : Press to exit the menu.

1. Press the **POWER** button.
   The Home Menu appears.

- **Home Menu**



Please activate Internet@TV service
to enjoy a variety of Internet Services.

❶	Selects Internet@TV.
❷	Selects Videos.
❸	Selects Music.
❹	Selects Photos.
❺	Selects Settings.
❻	Displays the buttons available.

2. Press the ◄► buttons to select **Settings**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select the desired submenu, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the desired item, and then press the **ENTER** button.
5. Press the **EXIT** button to exit the menu.

✎ **NOTE**

- When the player is connected to the network, select **Internet@TV** from the home menu.
  Download desired content from **Samsung Apps**.
  (See pages 58~59)
- The access step may differ depending on the menu you selected.
- The OSD (On Screen Display) may change in this player after you upgrade the software version.

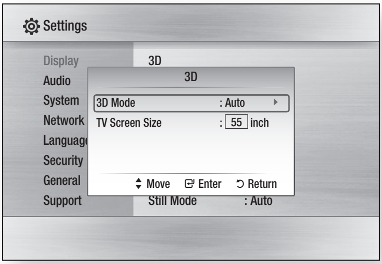
Setup

Display

You can configure various display options such as the TV Aspect Ratio, Resolution, etc.

3D

Select whether to play a Blu-ray Disc with 3D contents in 3D Mode.



3D Mode : Auto
TV Screen Size : 55 inch
Still Mode : Auto

3D Mode

- **Auto** : You can choose whether to watch a 3D Blu-ray disc in 3D or 2D mode before playing the 3D disc. It is automatically played in 2D mode if your TV cannot support 3D contents.
- **3D** : 3D Blu-ray Discs are played in 3D mode at all times. If a TV cannot support 3D Blu-ray discs, the playing screen can be black.
- **2D** : 3D Blu-ray Discs are played in 2D mode at all times. Choose this to view a picture without 3D effect or when a TV cannot support 3D Blu-ray discs.

✎ **NOTE**

- If you press the **STOP** (■) button once during the 3D disc playback, the 3D mode option will not be activated.
  To activate the 3D mode option during the 3D disc playback, press the **STOP** (■) button twice.
- Depending on the content and the position of the picture on your TV screen, you may see vertical black bars on the left or right or both sides.

TV Screen Size

Lets you enter the actual screen size of your TV so that the player can adjust the image according to the screen size and display an optimal 3D image.
(The maximum allowed screen size is 116 inches for this player.)

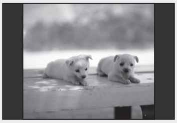
! CAUTION

- If you want to enjoy 3D content, connect a 3D device (3D compliant AV receiver or TV) to the player's HDMI OUT port using high-speed HDMI cable. Put on 3D glasses before playing the 3D content.
- While you watch 3D video, the player bloocks all analog component and composite signals automatically.
- The player outputs 3D signals only through HDMI cable connected to the HDMI OUT port.
- As the video resolution in 3D play mode is fixed according to the resolution of the original 3D video, you can not change the resolution to your preference.
- Some functions such as BD Wise, screen size adjustment, and resolution adjustment may not operate properly in 3D play mode.
- You must use a high-speed HDMI cable for proper output of the 3D signal.
- Stay at least three times the width of the screen from the TV when watching 3D images. For example, if you have a 46 inch screen, stay 138 inches (11.5 feet) from the screen.
  - Place the 3D video screen at eye level for the best 3D picture.
- When the product is connected to some 3D devices, the 3D effect may not function properly.
- This player does not convert 2D content to 3D.
- "Blu-ray 3D" and "Blu-ray 3D" logo are trademarks of Blu-ray Disc Association.

TV Aspect

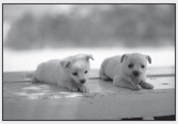
Depending on the type of television you have, you may want to adjust the screen size setting.

- **16:9 Normal**



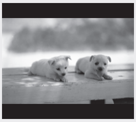
If you select 16:9 normal, the player plays 4:3 source movies in 4:3 Pillar-box (black bars on sides of picture) on your wide screen TV.

- **16:9 Wide**



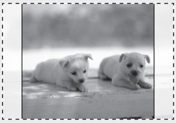
Select 16:9 Wide to view a movie with an aspect ratio of 16:9 (wide screen) in full 16:9 wide screen on your widescreen TV.

- **4:3 Letter Box**



If you have a TV with a 4:3 ratio screen, select when you want to see full 16:9 ratio images supplied by a Blu-ray Disc/DVD. Black bars will appear at the top and bottom of the screen.

- **4:3 Pan-Scan**



If you have a TV with a 4:3 ratio screen, select when you want to see the 16:9 video supplied by the Blu-ray Disc/DVD without the black bars on top and bottom.
The extreme left and right portion of the movie picture will be cut off.

NOTE

- Depending on the disc type, some aspect ratios may not be available.
- If you select an aspect ratio and option which is different than the aspect ratio of your TV screen, the picture might appear to be distorted.
- If you select the 4:3 Pan-Scan or 4:3 Letter Box, the **FULL SCREEN** button on your remote will not work.
- If you select the 16:9 Normal, your TV may display 4:3 Pillar-box.
- If this occurs, the **FULL SCREEN** button on the remote control will not work.

BD Wise (Samsung Players only)

BD Wise is Samsung's latest inter-connectivity feature.

When you connect Samsung players with BD Wise to each other via HDMI, the optimum resolution is set automatically.

- **On** : The original resolution of the BD/DVD disc is output to the TV.
- **Off** : The output resolution is fixed according to the Resolution previously set, regardless of the resolution of the disc.

NOTE

- If you want to change the resolution in BD Wise, you must set BD Wise to **Off** in advance.
- If you set BD Wise off, the resolution of the connected TV is adjusted to its maximum resolution automatically.
- If the player is connected to a device that does not support BD Wise, you can not use the BD Wise function.
- For proper operation of BD Wise, set the BD Wise menu of both the player and the TV to **On**.

Resolution

Sets the output resolution of the Component and HDMI video signal to 1080p, 1080i, 720p, 480p, or 480i. The number indicates the number of lines of video per frame. The i and p indicate interlaced and progressive scan, respectively. The more lines, the higher the quality.

- **Auto** : It automatically checks and sets the optimal resolution.
- **BD Wise** : Automatically sets the optimal resolution when you connect the player via HDMI to a TV with the BD Wise feature. (The BD Wise menu item appears only if BD Wise is set to On.)
- **1080p** : Outputs 1080 lines of progressive video.
- **1080i** : Outputs 1080 lines of interlaced video.
- **720p** : Outputs 720 lines of progressive video.
- **480p** : Outputs 480 lines of progressive video.
- **480i** : Outputs 480 lines of interlaced video.

Resolution according to the output mode

• Blu-ray Disc playback

Setup \ Output	HDMI / connected		HDMI / not connected	
	HDMI Mode	Component/VIDEO Mode	Component Mode	VIDEO Mode
Auto	Optimal Resolution	480i	-	-
1080p, Movie Frame(24Fs) off	1080p@60F	480i	-	-
1080p/1080i, Movie Frame(24Fs) on	1080p@24F	480i	-	-
1080i, Movie Frame(24Fs) off	1080i	480i	1080i	480i
720p	720p	480i	720p	480i
480p	480p	480i	480p	480i
480i	-	-	480i	480i

• DVD playback

Setup \ Output	HDMI / connected		HDMI / not connected	
	HDMI Mode	Component/VIDEO Mode	Component Mode	VIDEO Mode
Auto	Optimal Resolution	480i	-	-
1080p	1080p@60F	480i	-	-
1080i	1080i	480i	480p	480i
720p	720p	480i	480p	480i
480p	480p	480i	480p	480i
480i	-	-	480i	480i

✎ NOTE

- If the TV you connected does not support Movie Frame or the selected resolution, the message "If no pictures are shown after the selection, please wait for 15 seconds. And then, the resolution will be reverted to the previous value automatically. Would you like to make a selection?" appears.
  If you select **Yes** and the resolution is not supported, the TV's screen will go blank. Please wait for 15 seconds and the resolution will revert to the previous value automatically.
- If the screen is blank, press and hold the **STOP** (■) button on the front of the player for more than 5 seconds (no disc inserted). All settings are restored to the factory default. Follow the steps on the previous page to access each mode and select the Display Setup that your TV will support.
- When the factory default settings are restored, all the stored user BD data is deleted.
- The Blu-ray Disc must have the 24 frame feature to use the Movie Frame (24Fs) mode.
- If you have connected both the HDMI and Component jacks and you are currently viewing Component output, there may be a difference between resolution listed in the table above and actual resolution depending on your TV.

HDMI Format

You can optimize the color setting from the HDMI output by selecting a connected device type. Select a connected device Type.

- **TV** : Select if connected to a TV via HDMI.
- **Monitor** : Select if connected to a Monitor via HDMI.

Movie Frame (24Fs)

Setting the Movie Frame (24Fs) feature to **On** allows you to adjust the player's HDMI output to 24 frames per second for improved picture quality. You can enjoy the Movie Frame (24Fs) feature only on a TV supporting this frame rate. This menu can only be selected in 1080i or 1080p HDMI output resolution modes.

- **On** : Movie Frame (24Fs) functions work.
- **Off** : Movie Frame (24Fs) functions is off.

✎ **NOTE**

- If your TV does not support the Movie Frame (24Fs) function, a pop-up message appears.

Progressive Mode

Set to improve picture quality when viewing DVDs.

- **Auto** : Select this to have the player automatically set the best picture for the DVD you're watching.
- **Video** : Select for the best picture quality from concert or TV show DVDs.

Still Mode

Set the type of picture the player shows when you pause DVD playback.

- **Auto** : Automatically show the best still picture depending on the content.
- **Frame** : Select when pausing a scene with a little action.
- **Field** : Select when pausing a scene with a lot of action.

HDMI Deep Color

Set to output the picture from the HDMI OUT jack with Deep Color or not. Deep Color provides more accurate color reproduction with deeper color depth.

- **Auto** : The picture is output with Deep Color to the TV you have connected if the TV supports HDMI Deep Color.
- **Off** : The picture is output without Deep Color.

Audio

Digital Output

Lets you set the audio output format according to the capabilities of your amplifier. (For more details, see the digital output selection on the next page.)

- **PCM**
- **Bitstream (Re-encode)**
- **Bitstream (Audiophile)**

✎ **NOTE**

- Be sure to select the correct Digital Output or you will hear no sound or a loud noise.
- If the HDMI device (Receiver, TV) is not compatible with compression formats (Dolby digital, DTS), the audio signal outputs as PCM.
- Regular DVDs do not have BONUSVIEW audio and Navigation Sound Effects.
- Some Blu-ray Discs do not have BONUSVIEW audio and Navigation Sound Effects.
- This Digital Output setup does not affect the analog (L/R) audio or HDMI audio output to your TV.
  It affects the optical and HDMI audio output when the player is connected to a receiver.
- If you play MPEG audio soundtracks, audio signal outputs as PCM regardless of your Digital Output Selections (PCM or Bitstream).

Setup

Digital Output Selection

Setup		PCM		Bitstream (Re-encode)	Bitstream (Audiophile)	
Connection		HDMI Receiver	Optical	HDMI Receiver or Optical	HDMI Receiver	Optical
Audio Stream on Blu-ray Disc	PCM	Up to 7.1ch	PCM 2ch	DTS re-encoded	PCM	PCM 2ch
	Dolby Digital	Up to 5.1ch	PCM 2ch	DTS re-encoded	Dolby Digital	Dolby Digital
	Dolby Digital Plus	Up to 7.1ch	PCM 2ch	DTS re-encoded	Dolby Digital Plus	Dolby Digital
	Dolby TrueHD	Up to 7.1ch	PCM 2ch	DTS re-encoded	Dolby TrueHD	Dolby Digital
	DTS	Up to 6.1ch	PCM 2ch	DTS re-encoded	DTS	DTS
	DTS-HD HRA	Up to 7.1ch	PCM 2ch	DTS re-encoded	DTS-HD HRA	DTS
	DTS-HD MA	Up to 7.1ch	PCM 2ch	DTS re-encoded	DTS-HD MA	DTS
Audio Stream on DVD	PCM	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch
	Dolby Digital	Up to 5.1ch	PCM 2ch	Dolby Digital	Dolby Digital	Dolby Digital
	DTS	Up to 6.1ch	PCM 2ch	DTS	DTS	DTS
Definition for Blu-ray Disc	Any	Decodes main feature audio and BONUSVIEW audio streams into PCM audio and adds Navigation Sound Effects.		Decodes main feature audio and BONUSVIEW audio streams into PCM audio and adds Navigation Sound Effects, then re-encodes the PCM audio into DTS bitstream.	Outputs only main feature audio stream so that your AV receiver can decode the audio bitstream. You will not hear BONUSVIEW audio and Navigation Sound Effects.	

Blu-ray Discs may include three audio streams.

- Main Feature Audio : The audio soundtrack of the main feature.
- BONUSVIEW audio : Additional soundtrack such as director or actor's commentary.
- Navigation Sound Effects : When you choose some menu navigation icons, the player may play a Navigation Sound Effect. Navigation Sound Effects are different on each Blu-ray Disc.

PCM Downsampling

Set whether to downsample 96kHz signals.

- **On** : Select when the amplifier connected to the player is not 96kHz compatible. 96kHz signals are down converted to 48kHz.
- **Off** : Select when the amplifier connected to the player is 96kHz compatible.

NOTE

- Even when PCM Downsampling is set to **Off**, some discs will only output downsampled audio through the optical digital outputs.

HDMI

- If your TV is not compatible with compressed multi-channel formats (Dolby Digital, DTS), the player may output PCM 2ch downmixed audio even though you set Bitstream (either Re-encode or Audiophile) on your setup menu.
- If your TV is not compatible with PCM sampling rates over 48kHz, the player may output 48kHz downsampled PCM audio even though you set PCM Downsampling to **Off**.

Dynamic Range Control

You can listen at low volumes but still hear dialog clearly.
This is only active when the player detects a Dolby Digital signal.

- **Auto** : The Dynamic Range Control is set automatically based on the information provided by the Dolby TrueHD Soundtrack.
- **On** : When Movie soundtracks are played at low volume or from smaller speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.
- **Off** : You can enjoy the movie with the standard Dynamic Range.

Downmixing Mode

Select whether to downmix the multi-channel audio into fewer channels.

- **Normal Stereo** : Downmixes the multi-channel audio into two channel stereo. Choose when the player is connected to equipment that does not support virtual surround functions such as Dolby Pro Logic.
- **Surround Compatible** : Downmixes multi-channel audio into surround compatible stereo. Choose when the player is connected to equipment that supports virtual surround functions such as Dolby Pro Logic.

DTS Neo:6

You can enjoy multi-channel sound from a 2-channel audio source.

- **Off** : Outputs a 2-channel audio signal through the front speakers only.
- **Cinema** : Outputs 2-channel movie sound over multi-channels.
- **Music** : Outputs 2-channel music over multi-channels.

✎ **NOTE**

- If you are using an HDMI receiver, this option is available when you set Digital Output setup to PCM.

System

Initial Settings

By adjusting the Initial Settings, you can set language, TV aspect ratio, and Network Settings, etc.
For more information on the settings, refer to the corresponding section in this user manual.
(See pages 29~43)

Internet@TV Screen Size

Set the Internet@TV Screen to the optimal size.

- **Size 1** : Display smaller application icons.
  You may see some black on sides of screen.
- **Size 2** : Display normal application icons.
  The image may be too large for your TV screen.
- **Size 3** : Display larger application icons.
  The image may be too large for your TV screen.

Anynet+(HDMI-CEC)

Anynet+ is a convenient function that offers linked operations with other Samsung players that have the Anynet+ feature.
To operate this function, connect this player to an Anynet+ Samsung TV with an HDMI cable.
You can then operate this player using a Samsung TV remote control and start disc playback simply by pressing the **PLAY** (▶) button on the TV's remote control.
For more information, please see the TV's user manual.

- **On** : Anynet+ functions is on.
- **Off** : Anynet+ functions is off.

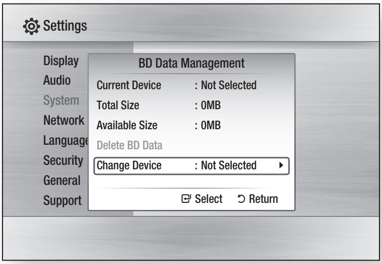
NOTE

- This function is not available if the HDMI cable does not support CEC.
- If your Samsung TV has an Anynet+ logo, then it supports the Anynet+ function.
- Depending on your TV, certain HDMI output resolutions may not work.
  Please refer to the user manual of your TV.

BD Data Management

Lets you manage the downloaded contents you accessed through a Blu-ray Disc that supports the BD-LIVE service.

You can check the device information including the storage size, delete the BD data, or change the Flash memory device.


Settings
Display
Audio
System
Network
Language
Security
General
Support
BD Data Management
Select
Return

Current Device : Not Selected
Total Size : 0MB
Available Size : 0MB
Delete BD Data
Change Device : Not Selected

Description of Device (Storage) Information on the Player

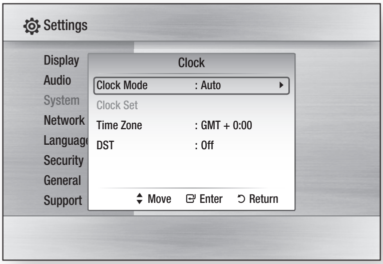
- **Total Size** : Total memory size of the Device(Storage).
- **Available Size** : Available memory in the Device (Storage).

NOTE

- In the external memory mode, disc playback will be stopped if you disconnect the USB device in the middle of playback.
- Only those USB devices formatted in FAT file system (DOS 8.3 volume label) are supported.
  We recommend you use USB devices that support USB 2.0 protocol, 4 MB/sec or faster read/write speed.
- The Resume Play function may not work after you format the storage device.
- The total memory available to BD Data Management may differ, depending on the conditions.

Clock

Set time-related functions.

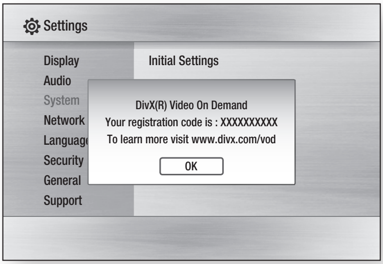

Settings
Display
Audio
System
Network
Language
Security
General
Support
Clock
Move
Enter
Return

Clock Mode : Auto
Clock Set
Time Zone : GMT + 0:00
DST : Off

- **Clock Mode** : You can set the clock mode to **Auto** or **Manual**. If you select **Manual**, the **Clock Set** menu is activated and **DST** is deactivated.
- **Clock Set** : You can specify the current time and date manually.
- **Time Zone** : You can specify the time zone that is applicable to your area.
- **DST** : You can set DST (Daylight Saving Time) on or off.

DivX(R) Registration

View DivX(R) VOD Registration Code to purchase and play DivX(R) VOD content.


Settings
Display
Audio
System
Network
Language
Security
General
Support
Initial Settings
OK

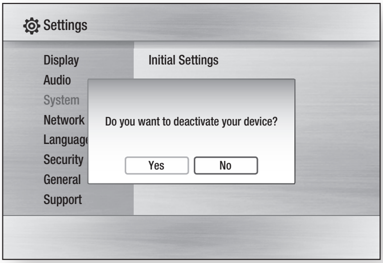
DivX(R) Video On Demand
Your registration code is : XXXXXXXXXX
To learn more visit www.divx.com/vod

NOTE

- This option is not activated if you select **OK**.
  To activate this option, please activate the DivX(R) Deactivation.

DivX(R) Deactivation

Select this to get a new registration code.



Do you want to deactivate your device?

✎ **NOTE**

- This function can be operated when DivX(R) Registration function is deactivated.

Network

To begin setting up the network connection for your player, follow these steps:

1. In the Home menu, press the ◄► buttons to select the **Settings**, and then press the **ENTER** button.
2. Press the ▲▼ buttons to select **Network**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **Network Settings**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **Network Type**, and then press the **ENTER** button.
5. Press the ▲▼ buttons to select **Wired** or **Wireless**, and then press the **ENTER** button.
6. Go to the next section.

Network Settings

Please contact your ISP to find out if your IP address is static or dynamic. If it is dynamic, we recommend using the Auto setting. This is the easiest and will work in the majority of cases. If it is static, you must use the manual set up procedure.

Directions for wired networks are below. Directions for wireless networks are after the directions for wired networks.

Wired Network

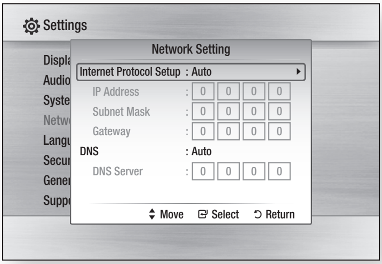
1. In the Network Settings menu, press the ▲▼ buttons to select **Network Setting**, and then press the **ENTER** button.
   The Internet Protocol Setup screen appears.
2. Press the ► button, then select **Auto** or **Manual**, and then press the **ENTER** button.

Setting Up a Wired Connection - Auto

1. If you selected **Auto**, the Network Function acquires and fills in the values for IP Address, Subnet Mask, etc., automatically.

✎ **NOTE**

- This process can take up to five minutes.



Internet Protocol Setup : Auto
IP Address : 0 0 0 0
Subnet Mask : 0 0 0 0
Gateway : 0 0 0 0
DNS : Auto
DNS Server : 0 0 0 0

2. After the Network Function has acquired the network values, press the **RETURN** button. Then, run a Network Test to ensure the player has connected to your network (See page 40).
3. If the Network Function does not acquire the network values or you selected Manual, go to the directions for Manual Setup.

Setup

Setting Up a Wired Connection - Manual

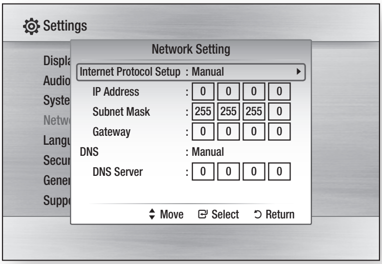
If the Auto Setting does not work, you'll need to set the Network Setting values manually.

To view the Network setting values on most Windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the screen.
2. In the pop-up menu, click Status.
3. On the dialog that appears, click the Support tab.
4. On the Support tab, click the Details button. The Network settings are displayed.

To enter the Network settings into your player, follow these steps:

1. On the Internet Protocol Setup screen, press the **ENTER** button.
2. Press the ▲▼ buttons to select **Manual**, and then press the **ENTER** button.
3. Press the ▼ button to go to the first entry field (IP Address).



Internet Protocol Setup : Manual
IP Address : 0 0 0 0
Subnet Mask : 255 255 255 0
Gateway : 0 0 0 0
DNS : Manual
DNS Server : 0 0 0 0

4. Use the number buttons on your remote to enter numbers.
5. When done with each field, use the ► button to move successively to the next field. You can also use the other arrow buttons to move up, down, and back.
6. Enter the **IP Address**, **Subnet Mask**, and **Gateway** values.
7. Press the ▼ button to go to **DNS**.
8. Press the ▼ button to go to the first DNS entry field. Enter the numbers as above.
9. Press the **RETURN** button on your remote.
10. Run a Network Test to ensure the player has connected to your network (See page 40).

Wireless Network

You can setup the wireless network three ways:

- Using PBC (WPS)
- Using the Auto Network Search function.
- Manually.

Each method is described below.

Setting Up the Wireless Network Connection - PBC (WPS)

The easiest way to set up the wireless network connection is using the PBC (WPS) function.
If your wireless router has a PBC (WPS) button, follow these steps:

1. In the Network Settings menu, press the ▲▼ buttons to select **Network Setting**, and then press the **ENTER** button.
   The Internet Protocol Setup screen appears.
2. Press the **RED (A)** button on the remote control.
3. Press the **PBC (WPS)** button on your router within two minutes. Your player displays the Network Selection Screen, and automatically acquires all the network setting values it needs and connects to your network. When it is done, it displays an **OK** button. Press the **ENTER** button on your remote.
4. After the network connection is set up, press the **RETURN** button to exit the Network Setting screen.

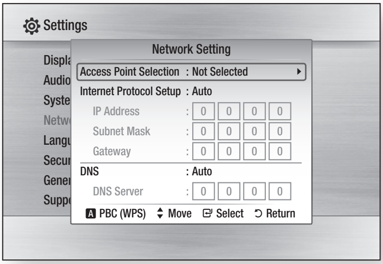
Setting Up the Wireless Network Connection - Auto Network Search

Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were asked to enter when you set up security for your wireless network. If you use this method of setting up the network connection, and have a Security Key for your wireless network, you will have to enter the Pass Phrase during the setup process.

▪ Setting Up the Network Connection

To set up the wireless connection using Auto Network Search, follow these steps:

1. In the Network Settings menu, press the ▲▼ buttons to select **Network Setting**, and then press the **ENTER** button.
   The Internet Protocol Setup screen appears.
2. Press the ▲▼ buttons to select the **Internet Protocol Setup**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **Auto** or **Manual**, and then press the **ENTER** button.

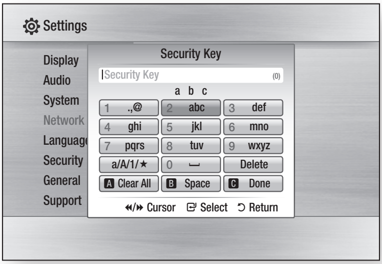

Settings
Displa
Audio
Syste
Netw
Langu
Secur
Gener
Suppo
Network Setting
A PBC (WPS)
Move
Select
Return

Access Point Selection : Not Selected
Internet Protocol Setup : Auto
IP Address : 0 0 0 0
Subnet Mask : 0 0 0 0
Gateway : 0 0 0 0
DNS : Auto
DNS Server : 0 0 0 0

4. If you selected **Auto**, press the ▲ button to go to **Access Point Selection**, and then press the **ENTER** button.
   The Network function searches for available wireless networks.
   When done, it displays a list of the available networks.
5. In the list of networks, press the ▲▼ buttons to select a network, and then press the **ENTER** button.
6. If the PIN/Security pop-up appears, go to Step 7. If the Network Connecting Screen appears, go to Step 11.
7. Press the ▲▼ buttons to select PIN or Security.
   For most home networks, you would select Security (for Security Key).
8. On the Security screen, enter your network's Pass Phrase.

✎ NOTE

- You should be able to find the Pass Phrase on one of the set up screens you used to set up your router or modem.


Settings
Display
Audio
System
Network
Language
Security
General
Support
Security Key
Security Key
(0)
a b c
1 .,@
2 abc
3 def
4 ghi
5 jkl
6 mno
7 pqrs
8 tuv
9 wxyz
a/A/1/★
0 ⎵
Delete
A Clear All
B Space
C Done
◀◀/▶▶ Cursor
Select
Return

9. To enter the Pass Phrase, follow these general directions:
   - Press the number keys on your remote to enter numbers.
   - Use the arrow keys on your remote to move from button to button on the Security Key screen.
   - To enter letters, move to the button labeled a/A/1/★, and then press the **ENTER** button. Each time you press the **ENTER** button, you change the kind of characters you can enter (a/A/1/★).
   - To enter a letter, press the number button that corresponds to the letter. Pressing the button repeatedly changes the letter.
   - To delete the last letter or number you entered, move to the **Delete** button, and then press the **ENTER** button.
   - To clear all entered letters and numbers, move to the Clear key, and then press the **ENTER** button. You can also just press the **RED (A)** button on your remote.
10. When done, press the **YELLOW (C)** button on your remote, or move to the **Done** button, and then press the **ENTER** button.
    The Network Connecting screen appears.
11. Wait until the connection confirmation message is displayed, and then press the **ENTER** button. The Network Settings screen reappears.

12. To test the connection, press the ▼ button to select **Network Test**, and then press the **ENTER** button.

Setting Up the Wireless Network Connection - Manual

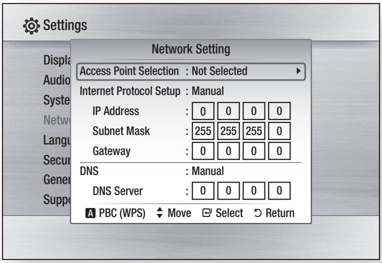
If the Auto Setting does not work, you need to enter the Network settng values manually.

To view the Network setting values on most Windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the screen.
2. In the pop-up menu, click Status.
3. On the dialog that appears, click the Support tab.
4. On the Support tab, click the Details button. The Network settings are displayed.

To Enter the Network settings into your player, follow these steps:

1. On the Internet Protocol Setup screen, press the **ENTER** button.
2. Press the ▲▼ buttons to select **Manual**, and then press the **ENTER** button.
3. Press the ▼ button to go to the first entry field (IP Address).



Access Point Selection : Not Selected
Internet Protocol Setup : Manual
IP Address : 0 0 0 0
Subnet Mask : 255 255 255 0
Gateway : 0 0 0 0
DNS : Manual
DNS Server : 0 0 0 0

4. Use the number buttons to enter numbers.
5. When done with each field, use the ► button to move successively to the next field. You can also use the other arrow buttons to move up, down, and back.
6. Enter the **IP Address**, **Subnet Mask**, and **Gateway** values.
7. Press the ▼ to go to **DNS**.
8. Press the ▼ button to go to the first DNS entry field. Enter the numbers as above.
9. When done, press the ▲ button to return to Access Point Selection. Select the network, and then press the **ENTER** button.
10. Go to Step 6 in the Automatic Wireless procedure above, and follow the directions from that point on.

Network Test

Use this menu to connect to the wired network or check whether your network connection is working or not.

Network Status

Check whether a connection to the network and the Internet have been established.

BD-LIVE Internet Connection

Select whether to allow an Internet connection when you are using the BD-LIVE service.

- **Allow (All)** : The Internet connection is allowed allowed for all BD-LIVE contents.
- **Allow (Valid Only)** : The Internet connection is allowed only for BD-LIVE contents containing a valid certificate.
- **Prohibit** : No Internet connection is allowed for any BD-LIVE content.

✎ NOTE

- **What is a valid certificate?**
  When the player uses BD-LIVE to send the disc data and a request to the server to certify the disc, the server uses the transferred data to check if the disc is valid and sends the certificate back to the player.
- The Internet connection may be restricted while you are using BD-LIVE contents.

Language

You can select the language you prefer for the home menu, disc menu, etc.

- **On-Screen Menu** : Select the language for the on-screen displays.
- **Disc Menu** : Select the language for the disc menu displays.
- **Audio** : Select the language for disc audio.
- **Subtitle** : Select the language for disc subtitles.

✎ NOTE

- The selected language only appears if it is supported on the disc.

Security

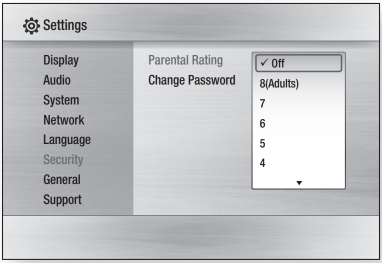
When you operate this menu for the first time, password setup screen will be displayed.
Enter the desired 4-digit password using the number buttons.

Parental Rating

The Parental Rating works in conjunction with Blu-ray Disc/DVDs that have been assigned a rating, which helps you control the types of Blu-ray Disc/DVDs that your family can watch.

To use this function, select a rating level that restricts the player to playing discs with ratings appropriate for your family. A larger number indicates that the program is intended for older or adult audiences only.

When you select a rating number, you should select the highest rating number you want the player to be able to play. For example, if you select Level 6, the player will play discs rated 6 and below, and will not play discs rated Level 7 or 8.


Settings
Display
Audio
System
Network
Language
Security
General
Support
Parental Rating
Change Password
✓ Off
8(Adults)
7
6
5
4

Change Password

Change the 4-digit password used to access security functions.

If you forgot your password

1. Remove the disc.
2. Press and hold the **STOP** (■) button on the front panel for 5 seconds or more.
   All settings will revert to the factory settings.

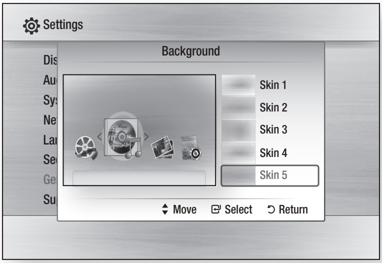
✎ NOTE

- When the factory default settings are restored, all the stored user BD data is deleted.

General

Background

Change the background theme of the menu screen.


Settings
Dis
Au
Sy
Ne
La
Se
Ge
Su
Background
Skin 1
Skin 2
Skin 3
Skin 4
Skin 5
Move
Select
Return

Energy Saving

You can reduce power consumption by setting the front panel to turn off automatically when there is no operation for 5 seconds.

- **On** : The front panel automatically turns off when there is no operation for 5 seconds.
- **Off** : Energy Saving function is off.

Front Display

Change the brightness of the front panel.

- **Auto** : Dim during playback.
- **Dim** : Dim the display window.
- **Bright** : Brighten the display window.

Power On/Off Sound

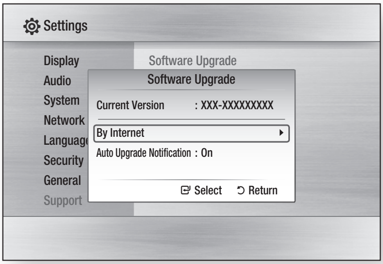
The player plays a melody when you turn it on and off.

- **On** : Turn Power Sound On.
- **Off** : Turn Power Sound Off.

Support

Software Upgrade

The Software Upgrade menu allows you to upgrade software for performance improvements or additional services. You can check the current software version, upgrade using internet, and set the Auto upgrade notification. If the player is properly connected to the network by cable or wirelessly, the player automatically connects to Samsung's website each time it is turned on and download update files if any valid updates exists.



Current Version : XXX-XXXXXXXXX

Auto Upgrade Notification : On

1. To select **By Internet**, press the **ENTER** button.
   A popup message appears if an update is available.
2. If you select **Yes**, the player will turn off automatically, restarts, and then begins theupgrade. (Do not turn it on manually here.)
3. The update progress popup appears.
   When the update is completed, the player will turn back off automatically.
4. Press the **POWER** button to turn on the player.

✎ NOTE

- The Update will be completed when the player turns off after restarting. Press the **POWER** button to turn on the updated player for your use.
  Never turn off or on the player manually during the update process.
- Samsung Electronics shall take no legal responsibility for player malfunction caused by an unstable internet connection or consumer negligence during a software upgrade.

You can also update software in the two ways listed below. The software update process is essentially the same as that of the **By Internet** process.

- **USB** : Visit www.samsung.com/bluraysupport, then download and store the latest software (RUF file) onto a USB flash drive. Connect the USB flash drive to the USB port of the player (disc tray must be empty), and then follow the software, then follow the on-screen instructions.
- **CD/DVD** : Visit www.samsung.com/bluraysupport, download and write the latest software (RUF file) onto a disc. Insert and play the disc in the player to start the update, and then follow the on-screen instructions.

✎ **NOTE**

- Software upgrades using the USB Host jack must be performed with no disc inside.
- If you want to cancel the upgrade while in the process of downloading the upgrade data, press the **ENTER** button.
- When the system upgrade is done, check the software details in the software Upgrade menu.
- Do not turn off the player during the System Upgrade. It may cause the player to not work properly.
- Software upgrades using the USB Host jack must be performed with a USB memory flash stick only.

Contact Samsung

Provides contact information for assistance with your player.

Basic Functions

Playing a Disc

Playback

1. Press the **OPEN/CLOSE** (⏏) button to open the disc tray.
2. Place a disc gently into the tray with the disc's label facing up.
3. Press the **OPEN/CLOSE** (⏏) button to close the disc tray.
4. Press the **PLAY** (▶) button.

Playback related buttons

PLAY (▶)	Starts playback.
STOP (■)	Stops playback. • If you press the button once, the player memorizes the stop position. • If you press the button twice, the player does not memorize the stop position.
PAUSE (⏸)	Pauses playback.

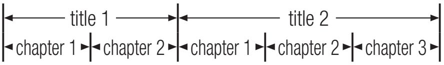
✎ **NOTE**

- For some discs, pressing the **STOP** (■) button once may not memorize the resume position.

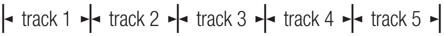
Disc Structure

The contents of disc are usually divided as below.

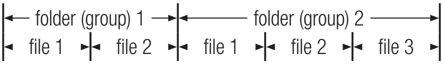
- **Blu-ray Disc, DVD-VIDEO**


title 1
title 2
chapter 1
chapter 2
chapter 1
chapter 2
chapter 3

- **Audio CD (CD-DA)**


track 1
track 2
track 3
track 4
track 5

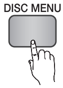
- **MP3, WMA, DivX, MKV and MP4**


folder (group) 1
folder (group) 2
file 1
file 2
file 1
file 2
file 3

Using the Disc menu/Title menu/ Popup menu

Using the Disc Menu

BD-ROM DVD-VIDEO



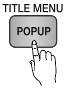
1. During playback, press the **DISC MENU** button on the remote control.
2. Press the ▲▼◄► buttons to make the desired selection, then press the **ENTER** button.

✎ **NOTE**

- Depending on the disc, the menu items may differ and this menu may not be available.

Using the Title Menu

DVD-VIDEO


TITLE MENU
POPUP

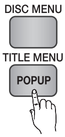
1. During playback, press the **TITLE MENU** button on the remote control.
2. Press the ▲▼◄► buttons to make the desired selection, then press the **ENTER** button.

✎ **NOTE**

- Depending on the disc, the menu items may differ and this menu may not be available.

Playing the Title List

BD-RE/-R


DISC MENU
TITLE MENU
POPUP

1. During playback, press the **DISC MENU** or **TITLE MENU** button.
2. Press the ▲▼ buttons to select an entry you want to play from Title List, then press the **ENTER** button.

✎ **NOTE**

- If your disc has the playlist, press the **GREEN(B)** button to go to the Playlist.

Using the Popup Menu

BD-ROM

TITLE MENU
POPUP

1. During playback, press the **POPUP MENU** button on the remote control.
2. Press the ▲▼◀▶ buttons or **ENTER** button to select the desired menu.

NOTE

- Depending on the disc, the menu items may differ and this menu may not be available.

Using the Search and Skip Functions

During play, you can search quickly through a chapter or track, and use the skip function to jump to the next selection.

Searching for a Desired Scene

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R DivX/MKV/MP4

- During playback, press the **SEARCH** (◀◀ ▶▶) button.
  Each time you press the **SEARCH** (◀◀ ▶▶) button, the playback speed will change as follows.

BD-ROM, BD-RE/-R, DVD-RW/-R, DVD+RW/+R, DVD-VIDEO	▶▶ 1 → ▶▶ 2 → ▶▶ 3 → ▶▶ 4 → ▶▶ 5 → ▶▶ 6 → ▶▶ 7 ◀◀ 1 → ◀◀ 2 → ◀◀ 3 → ◀◀ 4 → ◀◀ 5 → ◀◀ 6 → ◀◀ 7
DivX, MKV, MP4	▶▶ 1 → ▶▶ 2 → ▶▶ 3 ◀◀ 1 → ◀◀ 2 → ◀◀ 3

- To return to normal speed playback, press the **PLAY** (▶) button.

NOTE

- No sound is heard during search mode.

Skipping Chapters

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R DivX/MKV/MP4

- During playback, press the **SKIP** (⏮ ⏭) button.
  If you press the **SKIP** (⏭) button, the disc moves to the next chapter.
  If you press the **SKIP** (⏮) button, the disc moves to the beginning of the chapter. One more press makes the disc move to the beginning of the previous chapter.

Slow Motion Play/Step Motion Play

Slow Motion Play

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R DivX/MKV/MP4

- In pause mode, press the **SEARCH** (▶▶) button.
  Each time you press the **SEARCH** (▶▶) button, the playback speed is reduced as follows:
  I▶ 1/8 I▶ 1/4 I▶ 1/2
- To return to normal speed playback, press the **PLAY** (▶) button.

NOTE

- No sound is played during slow mode.

Step Motion Play

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R DivX/MKV/MP4

- In pause mode, press the **PAUSE** (⏸) button.
  Each time you press the **PAUSE** (⏸) button, a new frame appears.
- To return to normal speed playback, press the **PLAY** (▶) button.

NOTE

- No sound is played during step mode.

Basic Functions

Repeat Playback

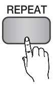
Repeat the Title or Chapter

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R

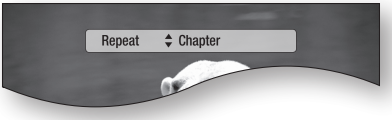
Repeat the disc title or chapter.

Depending on the disc, the Repeat function may not be available.

1. During playback, press the **REPEAT** button on the remote control.



2. Press the ▲▼ buttons to select **Chapter** or **Title**, then press the **ENTER** button.



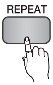
Repeat ◆ Chapter

3. To return to normal play, press the **REPEAT** button again.
4. Press the ▲▼ buttons to select **Off**, the press the **ENTER** button.

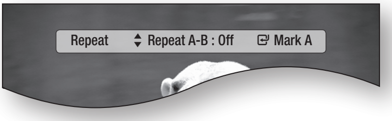
Repeat the Section

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R

1. During playback, press the **REPEAT** button on the remote control.



2. Press the ▲▼ buttons to select **Repeat A-B**.



Repeat ◆ Repeat A-B : Off ⏎ Mark A

3. Press the **ENTER** button at the point where you want repeat play to start (A).
4. Press the **ENTER** button at the point where you want repeat play to stop (B).
5. To return to normal play, press the **REPEAT** button again.
6. Press the **ENTER** button.

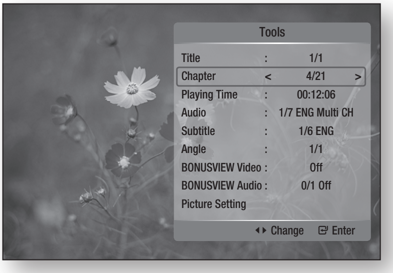
✎ **NOTE**

- You must set Point (B) at least 5 seconds after point (A). If you don't, a warning appears.

Using the TOOLS button

During playback, you can operate the disc menu by pressing the **TOOLS** button.

- **Tools Menu Screen**



Tools

Title	:	1/1
Chapter	<	4/21 >
Playing Time	:	00:12:06
Audio	:	1/7 ENG Multi CH
Subtitle	:	1/6 ENG
Angle	:	1/1
BONUSVIEW Video	:	Off
BONUSVIEW Audio	:	0/1 Off
Picture Setting		

◀▶ Change ⏎ Enter

✎ **NOTE**

- Depending on the disc, the Tools menu may differ.

Moving to a Desired Scene Directly

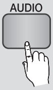
BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R

1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **Title**, **Chapter**, or **Playing Time**.
3. Enter the desired **Title**, **Chapter**, or **Playing Time** using the number buttons, then press the **ENTER** button.

Selecting the Audio Language

BD-ROM BD-RE/-R DVD-VIDEO DivX/MKV/MP4

You can also operate this function by pressing the **AUDIO** button on the remote control.



1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **Audio**.
3. Press the ◄► buttons to select the desired audio language.

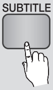
✎ NOTE

- The ◄► indicator will not be displayed on the screen if the BONUSVIEW section does not contain any BONUSVIEW audio settings.
- Information about the main feature/BONUSVIEW mode will also be displayed if the Blu-ray Disc has a BONUSVIEW section.
  Use the ◄► button to switch between main the feature and BONUSVIEW audio modes.
- This function depends on what audio languages are encoded on the disc and may not be available.
- A Blu-ray Disc can contain up to 32 audio languages and a DVD up to 8.
- Some Blu-ray Discs may allow you to select either the multi-channel LPCM or Dolby digital audio soundtrack in English.
- If you press the **AUDIO** button on the remote control, Audio bar will be appears.
  Press the **RETURN** button to remove the Audio bar.

Selecting the Subtitle Language

BD-ROM DVD-VIDEO DivX/MKV/MP4

You can also operate this function by pressing the **SUBTITLE** button on the remote control.



1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **Subtitle**.
3. Press the ◄► buttons to select the desired subtitle language.

✎ NOTE

- Depending on the Blu-ray Disc / DVD, you may be able to change the desired subtitle in the Disc Menu. Press the **DISC MENU** button.
- This function depends on what subtitles are encoded on the disc and may not be available on all Blu-ray Discs/DVDs.
- A Blu-ray Disc can contain up to 255 subtitle languages and a DVD up to 32.
- Information about the main feature/BONUSVIEW mode will also be displayed if the Blu-ray Disc has a BONUSVIEW section.
- This function changes both the primary and secondary subtitles at the same time.
- The total number of subtitles is the sum of the primary and secondary subtitles.
- If you press the **SUBTITLE** button on the remote control, the subtitle bar appears.
  Press the **RETURN** button to remove the subtitle bar.

Changing the Camera Angle

BD-ROM DVD-VIDEO

When a Blu-ray Disc/DVD contains multiple angles of a particular scene, you can use the ANGLE function.

1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **Angle**.
3. Press the ◄► buttons to select the desired angle.

Selecting the Picture Setting

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R

This function lets you adjust video quality when your player is connected to a TV via HDMI.

1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **Picture Setting**, then press the **ENTER** button.
3. Press the ◄► buttons to select the desired **Picture Setting**, then press the **ENTER** button.

Basic Functions

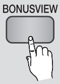
- **Dynamic** : Choose this setting to increase Sharpness.
- **Normal** : Choose this setting for most viewing applications.
- **Movie** : This is the best setting for watching movies.
- **User** : You can adjust the sharpness and noise reduction function respectively.

Setting BONUSVIEW

BD-ROM

The BONUSVIEW feature allows you to view additional content (such as commentaries) in a small screen window while the movie is playing. This function is only available if the disc has the Bonusview feature.

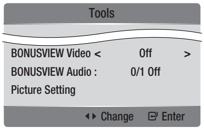
You can also operate this function by pressing the **BONUSVIEW** button on the remote control.



1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **BONUSVIEW Video** or **BONUSVIEW Audio**.
3. Press the ◄► buttons to select the desired Bonusview.

NOTE

- If you switch from BONUSVIEW Video, BONUSVIEW Audio will change automatically in accordance with BONUSVIEW Video.



Tools

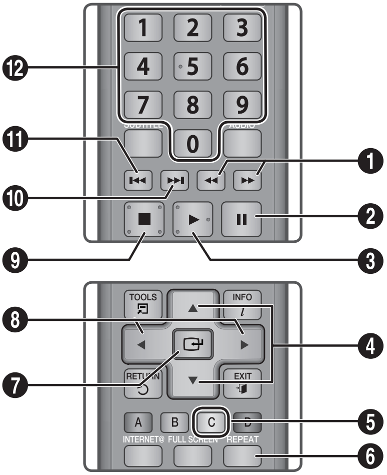
BONUSVIEW Video < Off >
BONUSVIEW Audio : 0/1 Off
Picture Setting

◄► Change ⏎ Enter

Listening to Music

Audio CD MP3/WMA

Buttons on the Remote Control used for Music Playback



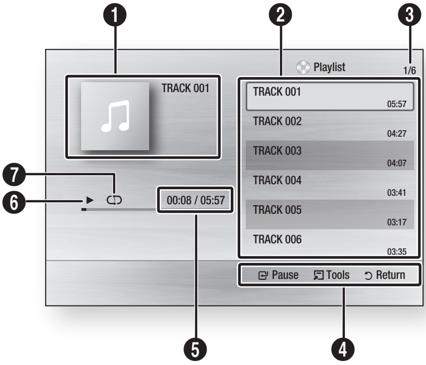
❶	**SEARCH** buttons : Fast Play. (Audio CD (CD-DA) only)
❷	**PAUSE** button : Pauses playback.
❸	**PLAY** button : Plays the currently selected track.
❹	▲▼ buttons : Selects a track in the Music List or Playlist.
❺	**YELLOW(C)** button : Select or deselect a track in the music list.
❻	**REPEAT** button : Selects the play mode in the Playlist.
❼	**ENTER** button : Plays and pauses the selected track.
❽	◄► buttons : Jump Play. (except for Audio CD (CD-DA))
❾	**STOP** button : Stops a track.
❿	**SKIP** button : During playback, moves to the next page in the Music List or moves to the next track in the Playlist.

⑪	**SKIP** button : During playback, moves to the previous page in the Music List or moves to the previous track in the Playlist. If you press this button after three seconds of playback in the Playlist, the current track is replayed from the beginning. But, if you press this button less than three seconds after playback starts in the Playlist, the previous track is played.
⑫	**NUMBER** buttons : During the Playlist playback, press the desired track number. The selected track is played.

Playing an Audio CD (CD-DA)/MP3

1. Insert an Audio CD (CD-DA) or an MP3 Disc into the disc tray.
   - For an Audio CD (CD-DA), the first track will be played automatically.
   - For an MP3 disc, press the ◄► buttons to select **Music**, then press the **ENTER** button.

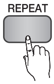
Audio CD (CD-DA)/MP3 Screen Elements



①	Displays the music information.
②	Displays the playlist.
③	Display the current track/total tracks.
④	Displays buttons available.
⑤	Shows the current play time/total play time.
⑥	Displays the current playback status
⑦	Displays the repeated playback status.

2. Press the ▲▼ buttons to select the track you want to play, and then press the **ENTER** button.

Repeat an Audio CD (CD-DA)/MP3



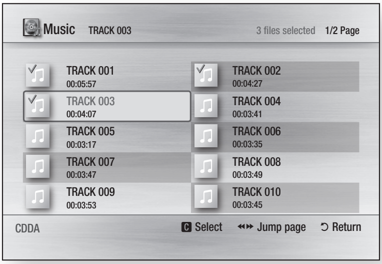
1. During the Playlist playback, press the **REPEAT** button.
2. Select the desired play mode by pressing the **REPEAT** button repeatedly.

Off	Audio CD (CD-DA)/MP3	Tracks on a disc are played in the order in which they were recorded on the disc.
(↻) Track	Audio CD (CD-DA)	Current track is repeated.
(↻) One	MP3	Current track is repeated.
(↻) All	Audio CD (CD-DA)/MP3	All tracks are repeated.
(🔀) Shuffle	Audio CD (CD-DA)/MP3	The random option plays a disc's track in random order.

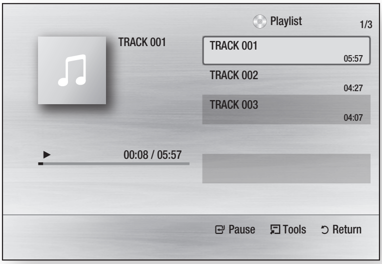
Playlist

1. Insert an Audio CD (CD-DA) or an MP3 Disc into the disc tray.
   - For an Audio CD (CD-DA), the first track plays automatically.
   - For an MP3 disc, press the ◄► buttons to select **Music**, then press the **ENTER** button.
2. To move to the Music List, press the **STOP** (■) or **RETURN** button.
   The Music List screen appears.

3. Press the ▲▼◄► buttons to move to the desired track, and then press the **YELLOW (C)** button. A check appears on the track.
   Repeat this procedure to select additional tracks.


Music TRACK 003
3 files selected 1/2 Page
TRACK 001 00:05:57
TRACK 002 00:04:27
TRACK 003 00:04:07
TRACK 004 00:03:41
TRACK 005 00:03:17
TRACK 006 00:03:35
TRACK 007 00:03:47
TRACK 008 00:03:49
TRACK 009 00:03:53
TRACK 010 00:03:45
CDDA
C Select
Jump page
Return

4. To remove a track from the playlist, move to the track, and then press the **YELLOW (C)** button again.
   The check on the track is deleted.
5. Press the **ENTER** button to play the selected tracks.
   Selected tracks play automatically.


Playlist
1/3
TRACK 001
TRACK 001 05:57
TRACK 002 04:27
TRACK 003 04:07
00:08 / 05:57
Pause
Tools
Return

6. To go to the Music List, press the **STOP** (■) or **RETURN** button.
7. To go to the Playlist, press the **ENTER** button.

NOTE

- You can create a playlist with up to 99 tracks on Audio CD (CD-DA).

Playing back Pictures

JPEG

Playing a JPEG Disc

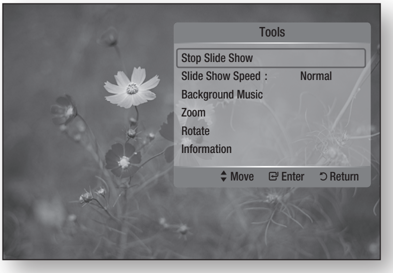
1. Insert a JPEG disc into the disc tray.
2. Press the ◄► buttons to select **Photos**, and then press the **ENTER** button.
3. Press the ▲▼◄► buttons to select the folder you want to play, and then press the **ENTER** button.
4. Press the ▲▼◄► buttons to select the photo you want to play, and then press the **ENTER** button.
   The Slide Show starts automatically.

NOTE

- You can't enlarge the subtitle and PG graphic in the full screen mode.

Using the TOOLS button

During the slide show playback, you can use various function by pressing the **TOOLS** button.


Tools
Stop Slide Show
Slide Show Speed : Normal
Background Music
Zoom
Rotate
Information
Move
Enter
Return

- **Stop Slide Show** : Select if you want to stop the slide show.
- **Slide Show Speed** : Select if you want to adjust the Slide Show speed.
- **Background Music** : Select if you want to listen to music while viewing a slide show.

- **Zoom** : Select if you want to enlarge the current picture. (Enlarged up to 4 times)
- **Rotate** : Select if you want to rotate the picture. (This rotates the picture either clockwise or counter clockwise.)
- **Information** : Shows the picture information including the name and size, etc.

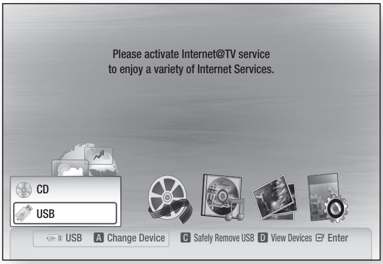
✎ NOTE

- Before you can enable the background music function, the photo file should exist in the same storage media with the music file. However, the sound quality can be affected by the bit rate of the MP3 file, the size of the photo, and the encoding method.

Playing back a USB Storage Device

You can use the USB connection to play multimedia files (MP3, JPEG, DivX, etc) downloaded from a USB storage device.

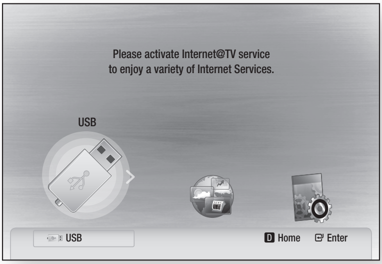
1. Move to the Home menu.
2. In Stop mode, connect the USB storage device to the USB port on the front panel of the player.
   The message “Do you want to access the device?” appears.
3. Press the ◄► button to select **Yes**, and then press the **ENTER** button.
4. Press the **RED (A)** button or the **BLUE (D)** button.
   If you pressed the **RED (A)** button, go to Step 5. If you pressed the **BLUE (D)** button, go to Step 4^{-1}.



Please activate Internet@TV service
to enjoy a variety of Internet Services.

5. Press the ▲▼ buttons to select **USB**, and then press the **ENTER** button.
6. Press the ◄► buttons to select the desired Videos, Music, or Photos, and then press the **ENTER** button. Go to Step 7.

4^{-1}. Press the **BLUE (D)** button. The screen below appears. Go to Step 5^{-1}.



Please activate Internet@TV service
to enjoy a variety of Internet Services.

5^{-1}. Press the ◄► buttons to select **USB**, and then press the **ENTER** button.

6^{-1}. Press the ▲▼ buttons to select the desired Videos, Music, or Photos, and then press the **ENTER** button.

7. For playing back Video, Music, or Photo files, refer to pages 48~52.

✎ NOTE

- You must remove the USB storage device safely (by performing the “Safe to Remove USB” function) in order to prevent a possible damage to the USB memory. Press the **MENU** button to move to the Home menu. Select the **YELLOW (C)** button, and then press the **ENTER** button.
- When the Audio-CD (CD-DA), MP3 and JPEG files are in stop mode, the **FULL SCREEN** button on the remote does not work.
- If you insert a disc when playing a USB storage device, the device mode is changed to “DVD or CD” automatically.

Notes on USB connection

- Supported devices: USB storage media, MP3 player, digital camera, USB card reader
- Does not support folders or file names ionger than 128 characters.
- Some USB devices and digital cameras may not be compatible with the product.
- Supports the FAT16, FAT32, and NTFS file systems.
- PTP protocol is not supported.
- Connect USB devices directly to the product's USB port. If you connect a device through a USB adaptor, hub, or secondary cable, you may have compatibility problems.
- If you insert more than one memory device into a multi-card reader, the reader may not operate properly.
- Do not disconnect USB device while you are uploading or playing files from the device.
- Bigger the image resolution, the longer it takes the player to display the image.
- The player cannot play back DRM applied MP3 files downloaded from a commercial site.
- External HDD devices are not supported.

Supported file formats

Video File Support

File Extension	Container	Video Codec	Audio Codec	Resolution
*.avi	AVI	DivX 3.11/4.x/5.1/6.0	MP3 AC3 DTS WMA PCM	1920x1080
		XviD		1920x1080
		MP4v3		1920x1080
		H.264 BP/MP/HP		1920x1080
*.mkv	MKV	VC-1 AP	MP3 AC3 DTS	1920x1080
		DivX 5.1/6.0		1920x1080
		XviD		1920x1080
		H.264 BP/MP/HP		1920x1080
*.wmv	WMV (wmv9)	VC-1 AP	WMA	1920x1080
		VC-1 SM		1920x1080
*.mp4	MP4	MP4 (mp4v)	AAC	1920x1080
		H.264 BP/MP/HP		1920x1080
*.mpg *.mpeg	PS	MPEG1	MP1, 2 AC3 DTS	1920x1080
		MPEG2		1920x1080
		H.264 BP/MP/HP		1920x1080

Music File Support

File Extension	Container	Audio Codec	Support Range
*.mp3	MP3	MP3	-
*.wma	WMA	WMA	Compliant with WMA version 10 * Sampling rates (in kHz) - 8, 11, 16, 22, 32, 44.1, 48 * Bit rates - All bit-rates in the range 5kbps to 384kbps

Network Services

You can enjoy various network services such as Internet@TV or BD-LIVE by connecting the player to the network system.

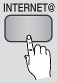
Check the following instructions before using any network service.

1. Connect the player to the network. (See pages 26~27)
2. Configure the network settings. (See pages 37~41)

Using Internet@TV

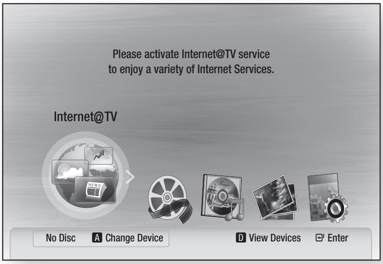
Connect this player to the network to download various for a fee or free-of-charge applications. Internet@TV brings useful and entertaining content and services directly from the web to your player such as news, weather forecasts, stock market quotes, games, movies and music.

You can also operate this function by pressing the **INTERNET@** button on the remote control.



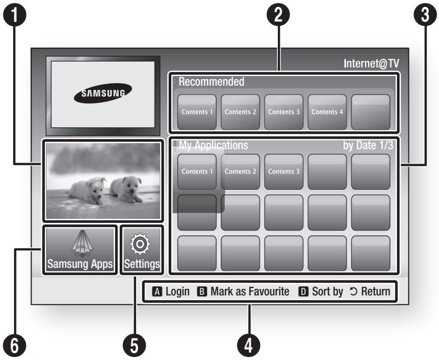
Getting Started with Internet@TV

1. Move to the Home menu.


Please activate Internet@TV service to enjoy a variety of Internet Services.
Internet@TV
No Disc
A Change Device
D View Devices
Enter

2. Press the ◄► buttons to select **Internet@TV**, and press the **ENTER** button.
3. In the start screen of the Internet@TV service, you will see the service agreement screen. You must agree to the service terms and conditions before you can use the Internet@TV service.
4. After you have agreed to the service agreement, the Internet@TV service starts updaing. This takes several minutes. When the update is completed, you will see the Internet@TV menu screen.

Internet@TV at a Glance

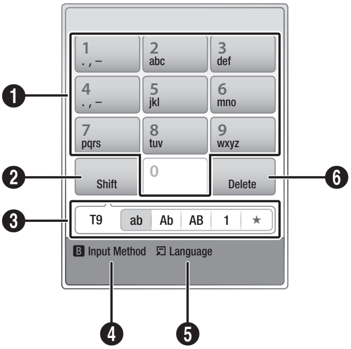

❶
❷
❸
Internet@TV
SAMSUNG
Recommended
Contents 1
Contents 2
Contents 3
Contents 4
My Applications
by Date 1/3
Contents 1
Contents 2
Contents 3
Samsung Apps
Settings
A Login
B Mark as Favourite
D Sort by
Return
❻
❺
❹

❶	**Commercial** : Displays Internet@TV Guide, product information, and new application introduction.
❷	**Recommended** : Displays recommended contents managed by Samsung.
❸	**My Applications** : Displays your personal gallery in which you can add and delete applications.
❹	**Navigation Help** : Displays remote control buttons available. • **RED (A)** : To log in to Internet@TV. • **GREEN (B)** : To mark the application as a favorite. • **BLUE (D)** : To sort the applications. • **Return** : To return to the previous menu.
❺	**Settings** : You can set the system setup and create accounts, etc.
❻	**Samsung Apps** : You can download various for-a fee or free-of-charge application services.

Network Services

Using the Keypad

Through your remote, you can use the On-Screen Keypad in several Internet@TV applications to enter text.



❶	The current keypad. Use to enter characters.
❷	Press the **SUBTITLE** button on the remote control to shift the input mode. : ab, Ab, AB, numbers or icons.
❸	Displays the current input mode.
❹	Press the **GREEN (B)** button on the remote control to change the input method. (T9 or ABC)
❺	Press the **TOOLS** button on the remote control to change the language.
❻	Press the **AUDIO** button on the remote control to delete a character.

Entering Text and Numbers

To enter text, press the number button on the remote that corresponds to the letter you want to enter. Press the button rapidly to enter a letter that is not the first letter listed on the On-Screen keypad button. For example, if you want to enter the letter b, press the 2 button on your remote rapidly twice. To enter the first letter listed on a button, press, release, and then wait.

To move within the text, use the Arrow buttons. To delete text, move the cursor to the right of the character you want to delete, and then press the **AUDIO** button. To change case or enter numbers or punctuation, press the **SUBTITLE** button.

✎ **NOTE**

- Samsung Electronics shall take no legal responsibility for any interruption of the Internet@TV service caused by the service provider for any reason.
- The Internet@TV service is to download and process data via the Internet so that you can enjoy the contents on your TV screen.
  If the Internet connection is unstable, the service may be delayed or interrupted.
  Furthermore, the player may turn off automatically.
  If this occurs, check the Internet connection and try again.
- Application services may be provided in English only and the contents available may vary, depending on the area.
- When your are using an application service, the **FULL SCREEN** button on your remote will not work.
- For more information about an Internet@TV service, visit the web site of the applicable service provider.
- The provided services are subject to change without notice, depending on the Internet@TV service provider.
- The Internet@TV service contents may differ depending on the firmware version.
- For-a-fee DivX contents with copy protection can only be played using HDMI cable.
  If you have connected your product to your TV using the Audio/Video cable, the DivX video signal can not output. The popup message “Connect with a HDMI cable to play this file.” or “Cannot play current file.” will be displayed.

Starting Internet@TV for the First Time

To start up Internet@TV for the first time, follow these steps:

1. Access Internet@TV as described on the previous page. The Internet@TV screen appears. In most cases, immediately after, the Country screen appears.
2. If the Country screen has appeared, use the ▲▼◄► buttons to select your country. When done, press the **ENTER** button.

✎ **NOTE**

- Certain applications are available only in certain countries.

3. The General Disclaimer screen appears. Use the ◄► buttons to move to Agree, and then press the **ENTER** button.

✎ **NOTE**

- Screens can take a few seconds to appear.

4. The Internet Privacy Policy screen appears. Use the ◄► buttons to move to Agree, and then press the **ENTER** button.
5. The Service Update screen appears and installs a number of services and applications. When done, it closes. The applications and services downloaded are listed on the Internet@TV screen.

✎ **NOTE**

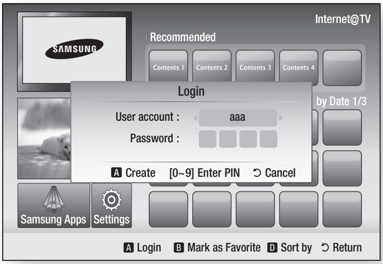
- Internet@TV may close momentarily during the installation process.
- A number of screens appear after installation. You can press Enter to close them or let them close on their own.

6. To start an application, use the ▲▼◄► buttons to highlight the application, and then press the **ENTER** button. The application starts.

Account Login

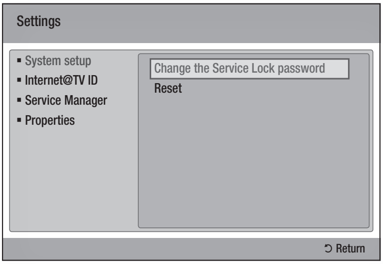
For a more enjoyable application experience, register and log in to your account.
To do this, you must create an account first.
(For instructions on creating an account, refer to Internet@TV ID on page 56.)

1. Press the ▲▼◄► buttons to select the desired application and press the **RED (A)** button.
2. Enter your user account and password.


User account : aaa
Password :
Internet@TV
Recommended
Contents 1
Contents 2
Contents 3
Contents 4
by Date 1/3
SAMSUNG
Login
A Create
[0~9] Enter PIN
Cancel
Samsung Apps
Settings
A Login
B Mark as Favorite
D Sort by
Return

Settings

Create IDs and configure Internet@TV settings on this screen. To accesss the Settings screen, click the Settings button on lower left of the main Internet@TV screen.


Settings
▪ System setup
▪ Internet@TV ID
▪ Service Manager
▪ Properties
Change the Service Lock password
Reset
Return

System Setup

Change the Service Lock password

The Service Lock password function lets you set a password that you can then use to establish password controlled access to Internet@TV services such as Netflix and Blockbuster. After you have set the password, you then set a service to locked or unlocked on the Service Manager screen. When a service is locked, you must enter the Service Lock password to access it.

To use the Service Lock function, follow these steps:

1. Highlight **Change the Service Lock password** on the Settngs screen, and then press the **ENTER** button.
2. On the screen that appears, enter the current password. If this is the first time you are using the Service Lock function, enter the default password, 0-0-0-0, using your remote. The next screen appears.
3. On the next screen, enter a new, four digit password on the first line. Enter it again on the second line to confirm.
4. The Changing Password Complete message screen appears. Press the **ENTER** button or wait for the screen to close - about 5 seconds.

Network Services

Reset

Resets Internet@TV to the factory default settings, removes all downloaded applications and services, erases all user settings, and then automatically begins the start-up procedure.

NOTE

- If you forgot your password, press the **STOP** (■) button on the front panel of the product for more than 5 seconds with no disc inserted. Don't use this unless absolutely necessary. Works the same as Reset.

Internet@TV ID

Use the Internet@TV ID function to create, manage, and delete personal Internet@TV accounts. Once you have established an account, you can link the account to service applications such as YouTube and Pandora. If you have an account on one of those sites, you can save the password for that account to your Internet@ TV account and automatically access certain, password protected functions of that account through Internet@TV.

Create

Create an account and link it with desired service applications.

NOTE

- The maximum number of accounts is 10.
- The maximum number of characters allowed in an ID is 8.

How to Create an Internet@TV ID and Account

Before creating a **User account**, you should download the services you want to link to through **Samsung Apps** on the Internet@TV main screen. For instructions, see **Samsung Apps**.

To create an account, follow these steps:

1. On the Internet@TV main screen, use the ▲▼◄► buttons to select Settings, and then press the **ENTER** button.
2. Press the ▼ button to select Internet@TV ID, and then press the **ENTER** or ► button.
3. Select **Create**, and then press the **ENTER** button. The Keypad and Interntet@TV ID screens appear.
4. Use the Keypad screen to enter your ID. The instructions in the sidebar to the right explain how to use the keypad screen.
5. After you have entered your ID, press the Enter button. The Password screen appears.
6. Using the remote, enter a four digit password. This password is for your Internet@ TV account only.
   The Account Created screen appears. If you press the Enter button, you go to the **Service Site** screen where you can associate service sites where you have an account, such as Blockbuster, with your Internet@TV account and ID. If you press the Return button, you exit the account creation procedure. The Create Account Complete screen appears for about 5 seconds, and then closes.
7. If you pressed the **ENTER** button, go to **How to Use the Service Site Screen** below. If you pressed the **RETURN** button, go to **Manager** on page 57.

How to Use the Service Site Screen

The Service Site screen lets you associate service sites where you have accounts with your Internet@ TV account. You complete the association by entering your user ID and password for a site on the Service Site screen. After you have associated a site with your Internet@TV account, you will be able to log onto your Internet@TV account and then log onto the associated site and access certain site functions without having to enter the site ID or password.

To Use the Service Site screen, follow these steps:

1. Use the ▲▼ buttons to select a Service Site you want to associate with your Internet@ TV account, and then press the **ENTER** button.
2. Using your remote and the on-screen Keypad, enter your site ID and password. Then, press the **ENTER** button. This is the ID and password you normally use to access your account on this site.

3. If you have entered the ID and password correctly, the Registered Successfully message appears, asking you if you want to add another service site. If you do, press the **ENTER** button, and then go to Step 4. If not, press Return and return to the Settings Screen.
4. If you pressed the **ENTER** button, repeat Steps 1 and 2 to associate another service site.
5. When you are done, press the **RETURN** button.

Manager

On this screen you can access the following functions:

- **Service Site** : Register login information for service sites.
- **Change Password** : Change account password.
- **Delete** : Delete an account. Instructions for
- using these functions are below.

Service Site

1. On the Settings screen, select **Internet@TV ID**. On the **Internet@TV ID** screen, select **Manager**, and then press the **ENTER** button.
2. On the Account Management screen, use the ▲▼ buttons to select your account, and then press the **ENTER** button.
3. Use the ◄► buttons to select Service Site, and then press the **ENTER** button.
4. Enter your Internet@TV password. The Service Site screen appears.
5. Use the ▲▼ to select a service site, and then press the **ENTER** button. The Service ID/Password screen and the Keypad screen appears.
6. Using your remote and the on-screen Keypad, enter your site ID and password. Then, press the **ENTER** button. This is the ID and password you normally use to access your account on this site.
7. If you have entered the ID and password correctly, the Registered Successfully message appears, asking you if you want to add another service site. If you do, press the **ENTER** button, and then go to Step 8. If not, press the **RETURN** button and return to the Settings Screen.
8. If you pressed the **ENTER** button, repeat Steps 5 and 6 to associate another Service site.
9. When you are done, press the **RETURN** button.

Change Password

1. On the **Internet@TV ID** screen, select Manager, and then press the **ENTER** button.
2. On the Account Management screen, use the ▲▼ buttons to select your account, and then press the **ENTER** button.
3. Use the ◄► buttons to select Change Password, and then press the **ENTER** button.
4. Enter your current password. The next screen appears.
5. On the next screen, enter a new, four digit password on the first line. Enter it again on the second line to confirm.
6. The Changing Password Complete message screen appears. Press the **ENTER** button or wait for the screen to close - about 5 seconds.

Delete

1. On the **Internet@TV ID** screen, select Manager, and then press the **ENTER** button.
2. On the Account Management screen, use the ▲▼ buttons to select your account, and then press the **ENTER** button.
3. Use the ◄► buttons to select Delete Account and then press the **ENTER** button.
4. Enter your current password. Your account is deleted. The Account Deleted message appears for about 5 seconds, and then closes.

Network Services

Service Manager

Lock, unlock, and delete services and applications installed in Internet@TV. When a service or application is locked, you must enter the Service Password to access it.

Lock/Unlock

1. On the **Settings screen**, select Service Manager, and then press the **ENTER** button.
2. On the Service Manager screen, use the ▲▼ buttons to select an application or service.
3. Use the ◄► buttons to select Lock/Unlock, and then press the **ENTER** button. If Locked is displayed, the service is currently locked. If Unlocked is displayed, the service is currently unlocked.
4. Enter the Service Lock Password. The Service Lock Activated or Service Lock Released message appears.
5. Press the **ENTER** button.

✎ **NOTE**

- Accessing a locked application requires the Service Lock Password.
- Some applications can not be locked.

Delete

1. On the **Settings screen**, select Service Manager, and then press the **ENTER** button.
2. On the Service Manager screen, use the ▲▼ buttons to select an application or service.
3. Use the ◄► buttons to select **Delete**, and then press the **ENTER** button.
4. The message, "Do you want to delete service?" appears.
5. Press the ◄ button to got to **Yes**, and then press the **ENTER** button. The service or application is deleted.

Properties

Displays information about Internet@TV. Use the **Check the speed of your internet connection** option to test your network connection.

Samsung Apps

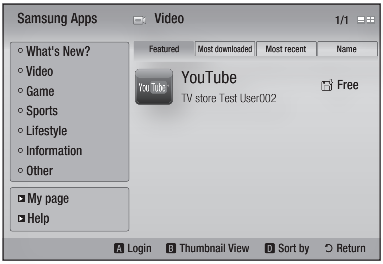
Samsung Apps is a store for downloading applications and services you can use on Samsung TVs and AV equipment.
You can access and enjoy a variety of contents including videos, music, photos, games, useful information etc. using the downloaded applications.
Additional applications will be available in the future.

Using the color buttons with the Samsung Apps.

- **A RED (Login)** : To log in to the internet service.
- **B GREEN (Thumbnail View)** : To change the view mode.
- **D BLUE (D) (Sort by)** : To sort the applications by **Featured**, **Most Downloaded**, **Most Recent** or **Name**.
- ↺ **Return** : Moves to previous menu.

Accessing the Samsung Apps Screen

To access Samsung Apps, use the ▲▼◄► buttons to navigate to the Samsung Apps button on the Internet@TV main screen, and then press the **ENTER** button.



Using the Samsung Apps Screen

To use the Samsung Apps screen, follow these steps:

1. Use the ◄► buttons to move to the category list on the left.
2. Use the ▲▼ to highlight a category. In a few seconds, the Samsung Apps screen displays the applications in that category.
3. Use the ► button to move to the displayed applications.
4. Use the ▲▼◄► buttons to select an application, and then press the **ENTER** button. The Application Details screen appears describing the sevice or application.
5. Press the **ENTER** button. If the applications is free, it downloads. If not, and there is a fee, follow the directions on the screen to complete the download.

✎ NOTE

- Applications you have downloaded appear on the Internet@TV main screen.
- You can also access the tabs on the top of the screen using the ▲▼◄► buttons.

Samsung Apps by category

The following categories are available:

- **What's New?**: Displays newly registered applications.
- **Video**: Displays various video media such as movies, TV shows, and short length videos.
- **Game**: Displays various games such as sudoku and chess.
- **Sports**: Displays various sports media such as match information, images, and short length video.
- **Lifestyle**: Includes various lifestyle media services such as music, personal photo management tools, and social networking such as Facebook and Twitter.
- **Information**: Includes various information services such as news, stocks, and weather.
- **Other**: Includes other miscellaneous services.

My page

Displays the application list.

Help

If you have questions about Internet@TV, check Help first. If none of the tips apply, please visit the Help website.

Using the color buttons with the Samsung Apps

- **RED (A) (Login)** : To log in to the internet service.
- **GREEN (B) (Thumbnail View)** : To change the view mode.
- **BLUE (D) (Sort by)** : To sort the applications by Featured, Most Downloaded, Most Recent, or Name.
- **Return** : Moves to previious menu.

Internet@TV Services Available

- YouTube/Pandora/Netflix/Blockbuster/USA Today News
  - Blockbuster : You can view movies streamed by Blockbuster.
  - YouTube : You can view video streamed by YouTube.
  - Netflix : You can view movies streamed by Netflix.
  - Pandora : You can listen to Internet radio.

✎ NOTE

- The Internet contents services may be added or deleted by providers without notice

Network Services

BD-LIVE™

Once the player is connected to the network, you can enjoy various movie-related service contents using a BD-LIVE compliant disc.

1. Attach a USB memory stick to the USB jack on the front of the player, and then check its remaining memory. The memory device must have at least 1GB of free space to accommodate the BD-LIVE services.
2. Insert a Blu-ray disc that supports BD-LIVE.
3. Select an item from various BD-LIVE service contents provided by the disc manufacturer.

NOTE

- The way you use BD-LIVE and the provided contents may differ, depending on the disc manufacturer.
- While you enjoy the BD-LIVE service, the pop-up message can be displayed.
  In this case, check whether the USB storage device is connected with your player or not.
  And then check the selected storage device and available size in BD data management. (See page 36)

Software Upgrade Notification

When connected to the network, the player can notify you if a new software version is available.

1. Turn on the player.
2. In the Software Upgrade menu, set Auto Upgrade Notification to **On**. (See page 42)
   If there is a new software version available, the player notifies you with a pop-up message.
3. To upgrade the firmware, select **Yes** on the pop-up. The player turns off automatically, then restarts, and begins the download. (Never turn the player on manually here.)
4. The update progress popup appears.
   When the update is complete, the player turns off again automatically.
5. Press the **POWER** button to turn on the player.

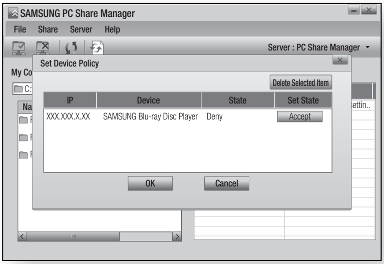
NOTE

- Update is complete when the player turns off after restarting. Press the **POWER** button to turn on the updated player for your use.
  Never turn the player off or on manually during the update process.
- Samsung Electronics shall take no legal responsibility for player malfunction caused by an unstable internet connection or consumer negligence during software upgrade.

Using the AllShare Function

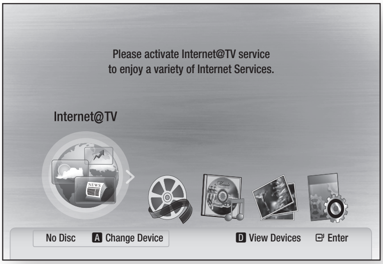
AllShare lets you play music, video, and photo files located in your PC on your TV, using the player.
To use AllShare, you must connect the player to your PC via the network (See pages 26~27) and install the SAMSUNG PC Share Manager on the PC. To install and use Share Manager, follow these steps:

1. Visit the Samsung website at www.samsung.com.
2. Download SAMSUNG PC Share Manager and install it on your PC.
3. When the installation is complete, you will see the SAMSUNG PC Share Manager icon on your desktop.
   Double-click the icon to launch the application.
4. Select a folder to share from the My computer pane, and then click the **Share Folder Enabled icon** (☑).
   (To remove a shared folder : Select a folder to remove from the shared folders, and then click the **Share Folder Disabled icon** (☒).)
5. To apply the updated sharing state to the server, click the **Set Change State icon** (⟳).
6. To enable the player to locate a PC server, click **Share** in the menu bar.
   Click **Set Device Policy**, and then click **Accept**.


SAMSUNG PC Share Manager
File Share Server Help
Server : PC Share Manager
Set Device Policy
Delete Selected Item
OK
Cancel

IP	Device	State	Set State
XXX.XXX.X.XX	SAMSUNG Blu-ray Disc Player	Deny	Accept

7. Click the **Set Change State icon** ( ), and then move to the home menu on the player.
8. To select a device, use the **RED (A)** or **BLUE (D)** button to select a file to play.
(For playing back Video, Music, or Photos files, see pages 48~51.)



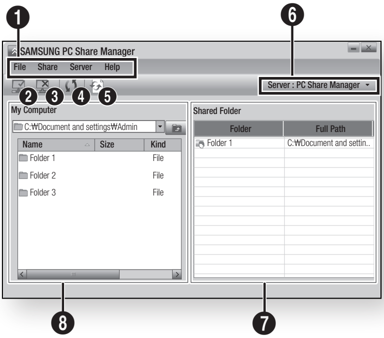
Please activate Internet@TV service
to enjoy a variety of Internet Services.

Internet@TV
No Disc
A Change Device
D View Devices
Enter

✎ NOTE

- Depending on the performance of the external modem or router, HD video may not play properly.
- If your system uses a firewall, the player may not locate your PC on the TV screen.
- AllShare does not support the following functions.
  - The Background Music and Background Music Setting functions.
  - Sorting files by preference in the Photo, Music and Movie folders.
  - The Change Group function.
  - The Safe Remove function.
- The sorting method may differ depending on the server function.
- The search and skip operation may differ depending on the server function.
- If you press the **STOP** (■) button during video playback, the player memorizes the position at which the streamed video stopped on the player, but not on the PC. The player, however, may not memorize the stop position, depending on the server function.
- During video playback, play time is not displayed.
- To use the AllShare function, please place both this player and your PC in the same subnet.

AllShare Program at a Glance


❶
❷
❸
❹
❺
❻
❼
❽
SAMSUNG PC Share Manager
File Share Server Help
Server : PC Share Manager
My Computer
C:₩Document and settings₩Admin
Name
Size
Kind
Folder 1
Folder 2
Folder 3
File
File
File
Shared Folder
Folder
Full Path
Folder 1
C:₩Document and settin..

❶	**Menu Bar**
❷	**Share Folder Enabled icon** : Use to select a folder in your PC to share.
❸	**Share Folder Disabled icon** : Use to set folder sharing off.
❹	**Refresh icon** : Use to refresh the list of folders and files in My Computer.
❺	**Set Change State icon** : Select a folder to share, and then click the Set Change State icon. The updated state is applied to the server.
❻	**Server** : Displays the name of the sharing server.
❼	**Shared Folder** : Displays a list of the shared folders.
❽	**My Computer** : Displays a list of the folders and files in the PC.

Appendix

Troubleshooting

Before requesting service, please check the following.

PROBLEM	SOLUTION
No operation can be performed with the remote control.	• Check the batteries in the remote control. They may need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote control to reset it. Reinstall batteries and try to operate the remote control again.
Disc does not play.	• Ensure that the disc is installed with the label side facing up. • Check the region number of the Blu-ray Disc/DVD.
Disc Menu does not appear.	• Ensure that the disc has disc menus.
The prohibition message appears on the screen.	• This message appears when an invalid button is pressed. • The Blu-ray Disc/DVD's software doesn't support the feature (e.g., angles) • You've requested a title or chapter number or search time that is out of range.
Play mode differs from the Setup Menu selection.	• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.
The screen ratio cannot be changed.	• The Screen Ratio is fixed on your Blu-ray Disc/DVDs. • This is not a problem with the player.
No audio.	• Make sure you have selected the correct Digital Output in the Audio Options Menu.
The screen is blocked	• If the HDMI output is set to a resolution your TV cannot support (for example, 1080p), you may not see a picture on your TV. • Press the **STOP** (■) button (on front panel) for more than 5 seconds with no disc inside. All settings will revert to the factory settings. • When the factory default settings are restored, all the stored user BD data is deleted.

PROBLEM	SOLUTION
Forgot password	• Press the **STOP** (■) button (on front panel) for more than 5 seconds with no disc inside. All settings including the password will revert to the factory settings. Don't use this unless absolutely necessary. • When the factory default settings are restored, all the stored user BD data is deleted.
If you experience other problems.	• Go to the contents and find the section of the user manual that contains the explanations regarding the current problem, and follow the procedure once again. • If the problem still cannot be solved, please contact your nearest Samsung authorized service center.
The picture is noisy or distorted	• Make sure that the disc is not dirty or scratched. • Clean the disc.
No HDMI output.	• Check the connection between the TV and the HDMI jack of the player. • Check if your TV supports 480p, 720p, 1080i, or 1080p HDMI input resolution.
Abnormal HDMI output screen.	• If random noise appears on the screen, it means that your TV does not support HDCP (High-bandwidth Digital Content Protection).
PC Share Manager function	
I can see folders shared through the PC Share Manager, but I cannot see the files.	• Since it shows only files corresponding to the Image, Music, and Movie categories, files that do not correspond to these categories may not be displayed.
AllShare function	
Video is played intermittently.	• Check if the network is stable. • Check if the network cable is properly connected and if the network is not overloaded. • If you are using a wireless network, the Wireless connection between the server and the player is unstable. Check the connection.
AllShare connection between TV and PC is unstable.	• IP address under the same subnetwork should be unique, otherwise IP collision can occur causing unstable network connections. • Check if you have a firewall enabled. If so, disable the firewall function.

Appendix

PROBLEM	SOLUTION
BD-LIVE	
I cannot connect to the BD-LIVE server.	• Check whether the network connection is successful or not by using Network Test menu. (See page 40) • Check whether the USB memory device is connected to the player or not. • The memory device must have at least 1GB of free space to accommodate the BD-LIVE service. You can check the available size in BD Data Management. (See page 36) • Please check whether the BD-LIVE Internet Connection menu is set to Allow(All). • If all above fails, contact the contents provider or update the latest firmware.
When using the BD-LIVE service, an error occurs.	• The memory device must have at least 1GB of free space to accommodate the BD-LIVE service. You can check the available size in BD Data Management. (See page 36)

NOTE

- When the factory default settings are restored, all the stored user BD data is deleted.

Viewing using 3D function

IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D PICTURES.
Read and understand the following safety information before using the 3D function.

- Some viewers may experience discomfort while viewing 3D TV such as dizziness, nausea, and headaches.
  If you experience any such symptom, stop viewing 3D TV, remove 3D Active Glasses, and rest.
- Watching 3D images for an extended period of time may cause eye strain. If you feel eye strain, stop viewing 3D TV, remove your 3D Active Glasses, and rest.
- A responsible adult should frequently check on children who are using the 3D function. If there are any reports of tired eyes, headaches, dizziness, or nausea, have the child stop viewing 3D TV and rest.
- Do not use the 3D Active Glasses for other purposes (such as general eyeglasses, sunglasses, protective goggles, etc.)
- Do not use the 3D function or 3D Active Glasses while walking or moving around. Using the 3D function or 3D Active Glasses while moving around may result in injuries due to running into objects, tripping, and/or falling.

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Appendix

Specifications

General	Power Requirements	AC 120V, 60Hz
	Power Consumption	14W
	Weight	3.8 lbs
	Dimensions	17.1 (W) X 8.1 (D) X 1.7 (H) inches
	Operating Temperature Range	+41°F to +95°F
	Operating Humidity Range	10 % to 75 %
Disc	BD (Blu-ray Disc)	Reading Speed : 4.917 m/sec
	DVD (Digital Versatile Disc)	Reading Speed : 3.49 ~ 4.06 m/sec.
		Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 5 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 74 min.
	CD : 3 1/2 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 20 min.
Video Output	Composite Video	1 Channel : 1.0 Vp-p (75Ω load)
		Blu-ray/DVD Disc : 480i
	Component Video	Y : 1.0 Vp-p (75Ω load) P_R : 0.70 Vp-p (75Ω load) P_B : 0.70 Vp-p (75Ω load) Blu-ray Disc : 1080i, 720p, 480p, 480i DVD : 480p, 480i
Video/Audio	HDMI	2D : 1080p, 1080i, 720p, 480p 3D : 1080p, 720p
		PCM multichannel audio, Bitstream audio
Audio Output	2 Channel	L(1/L), R(2/R)
	Digital Audio Output	Optical
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz
		96 kHz Sampling : 4 Hz to 44 kHz
	*S/N Ratio	110 dB
	*Dynamic Range	100 dB
	*Total Harmonic Distortion	0.003%

*: Nominal specification

- Design and specifications are subject to change without prior notice.
- Weight and dimensions are approximate.

Compliance and Compatibility Notice

NOT ALL discs are compatible.

- Subject to the restrictions described below and those noted throughout this manual, including the Disc Type and Characteristics section, disc types that can be played are: pre-recorded commercial BD-ROM, DVD-VIDEO, and Audio CD (CD-DA) discs; BD-RE/-R, DVD-RW/-R discs; and CD-RW/-R discs.
- Discs other than those listed above cannot and/or are not intended to be played by this player. Some of the above discs may not play due to one or more reasons provided below.
- Samsung cannot assure that this player will play every disc bearing the BD-ROM, BD-RE/-R, DVD-VIDEO, DVD-RW/-R, DVD+RW/+R and CD-RW/-R logos. This player may not respond to all operating commands or operate all features of every disc. These and other disc compatibility and player operation issues with new and existing format discs are possible because:
    - Blu-ray is a new and evolving format. Some features may not operate all features of Blu-ray Discs because some features may be optional, additional features may have been added to the Blu-ray Disc format after the production of this player, and certain available features may be subject to delayed availability;
    - Not all new and existing disc format versions are supported by this player;
    - New and existing disc formats may be revised, changed, updated, improved and/or supplemented;
    - Some discs are produced in a manner that allows only specific or limited operation and feature during playback;
    - Some features may be optional, additional features may have been added after the production of this player or certain available features may be subject to delayed availability;
    - Some discs bearing the BD-ROM, BD-RE/-R, DVD-VIDEO, DVD-RW/-R, DVD+RW/+R and CD-RW/-R logos may still be non-standardized discs;
    - Some discs may not play depending on their physical state or recording conditions;
    - Problems and errors can occur during the creation of Blu-ray Disc, DVD software and/or the manufacture of discs;
    - This player operates differently than a standard DVD player or other AV equipment; and/or
    - For reasons noted throughout this user manual and for other reason(s) discovered and posted by SAMSUNG customer care center.
- If you encounter disc compatibility or player operation problems, please contact SAMSUNG customer care center.
  You may also contact the SAMSUNG customer care center for possible updates on this player.
- For additional information on playback restrictions and disc compatibility, refer to the Precautions, Before Reading the user manual, Disc Types and Characteristics, and Before Playing sections of this user manual.

Copy Protection

- Because AACS (Advanced Access Content System) is approved as content protection system for Blu-ray Disc format, similar to use of CSS (Content Scramble System) for DVD format, certain restrictions are imposed on playback, analog signal output, etc., of AACS protected contents.
  The operation of this product and restrictions on this product may vary depending on your time of purchase as those restrictions may be adopted and/or changed by AACS after the production of this product. Furthermore, BD-ROM Mark and BD+ are additionally used as content protection system for Blu-ray Disc format, which imposes certain restrictions including playback restrictions for BD-ROM Mark and/or BD+ protected contents. To obtain additional information on AACS, BD-ROM Mark, BD+, or this product, please contact SAMSUNG customer care center.

Appendix

- Many Blu-ray Disc/DVD discs are encoded with copy protection. Because of this, you should only connect your Player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected Blu-ray Disc/DVD discs.
- This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.
- Under the U.S. Copyright laws and Copyright laws of other countries, unauthorized recording, use, display, distribution, or revision of television programs, videotapes, Blu-ray Discs, DVDs, and other materials may subject you to civil and/or criminal liability.
- **For Blu-ray Disc Player progressive scan output :** CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE ‘STANDARD DEFINITION’ OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS PRODUCT, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

Network Service Disclaimer

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- Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

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- ABOUT DIVX VIDEO : DivX® is a digital video format created by DivX,Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.
- ABOUT DIVX VIDEO-ON-DEMAND : This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.
- DivX Certified to play DivX video up to HD 1080p, including premium content.

- Open Source License Notice
  - In the case of using open source software, Open Source Licenses are available on the product menu.

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG ELECTRONICS AMERICA, INC. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for the following limited warranty period:

One (1) Year Parts / One (1) Year Labor

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States, and does not include transportation, installation, removal or reinstallation. Warranty repairs must be performed by SAMSUNG's authorized service center. To receive warranty service, the original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge with new or reconditioned parts, if found to be defective during the limited warranty period specified above. The product must be returned during the warranty period with transportation charges prepaid to SAMSUNG's designated service center. Prior to returning any product for warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. SAMSUNG does not warrant uninterrupted or error-free operation of the product.

All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, noncommercial use of this product and shall not apply to the following, including, but not limited to: damage which occurs in shipment; applications and uses for which this product was not intended; failures or problems which are caused by products or equipment not supplied by SAMSUNG; accidents, misuse, abuse, neglect, misapplication, fire, water, lightning or other acts of nature; incorrect electrical line voltage, fluctuations or surges; damage caused by improper or faulty installation; improper connection with any peripheral; product alteration or modification; improper or unauthorized repair; cosmetic damage or exterior finish; product with altered serial numbers; failure to follow operating instructions, customer adjustments, maintenance and environmental instructions that are covered and prescribed in the instruction book; use of non-SAMSUNG or unauthorized parts, supplies, accessories or equipment which damage this product or result in service problems; failures or problems due to incompatibility with other equipment.

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SAMSUNG does not warrant (i) disc compatibility with new and existing format discs or (ii) error free playback in full compliance with specifications of the compatible disc formats, and SAMSUNG shall not be liable for any data loss recorded in your discs. SAMSUNG's responsibility shall be limited to appropriate warranty services during the warranty period through SAMSUNG customer care center. If you encounter compatibility or data loss problems, please contact SAMSUNG customer care center.

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Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To obtain warranty service, please contact SAMSUNG customer care center.

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Area	Contact Center ☎	Web Site
■ North America		
Canada	1-800-SAMSUNG (726-7864)	www.samsung.com
Mexico	01-800-SAMSUNG (726-7864)	www.samsung.com
U.S.A	1-800-SAMSUNG (726-7864)	www.samsung.com
■ Latin America		
Argentine	0800-333-3733	www.samsung.com
Brazil	0800-124-421 / 4004-0000	www.samsung.com
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